

GenCore version 5.1.4-p5_4578
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OM nucleic - nucleic search, using sw model

Run Date: May 21, 2003, 05:36:57 ; Search time 1812 seconds

(without alignments)
9379.712 Million cell updates/sec

Title: US-09-695-451-1_COPY_727_1310

Perfect score: 584

Sequence: 1 tgcacagagagaacagacac.....cacaagccacagagcctaga 584

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Gapop 10.0 ; Gapext 1.0

Searched: 2054640 seqs, 14551402878 residues

Total number of hits satisfying chosen parameters: 630860

Minimum DB seq length: 0

Maximum DB seq length: 30

Post-processing: Minimum Match 0%
Maximum Match 100%

Database:

Listing first 45 summaries

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4: gb_cm:*

5: gb_ov:*

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41: em_hcg_hum:*

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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3	22.8	3.9	26	6	A29670
4	21	3.6	21	6	A19910
5	21	3.6	21	6	A19912
6	21	3.6	21	6	A131319
7	21	3.6	21	6	A134771
8	21	3.6	21	6	A240482
9	20.8	3.6	24	6	A57512
10	20.8	3.6	24	6	AR052978
11	20	3.4	30	6	A20243
12	20	3.4	30	6	I43796
13	19.2	3.3	24	6	A57514
14	19.2	3.3	24	6	AR052980
15	18.8	3.2	24	6	A57518
16	18.8	3.2	24	6	AR052984
17	18.2	3.1	23	6	AX472525
18	18.2	3.1	23	6	AR074225
19	18.2	3.1	25	6	AR074226
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21	18.2	3.1	25	6	AX032588
22	18.2	3.1	25	6	AR096376
23	18	3.1	18	6	AR096377
24	18	3.1	18	6	AR096378
25	18	3.1	18	6	AR096379
26	18	3.1	18	6	AR096380
27	18	3.1	18	6	AR096381
28	18	3.1	18	6	AR096382
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42	18	3.1	18	6	AR096396
43	18	3.1	18	6	AR096397
44	18	3.1	18	6	AR096398
45	18	3.1	18	6	AR096399

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Result No.	Score	Query Match	Length	DB ID	Description
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3	22.8	3.9	26	6	A29670
4	21	3.6	21	6	A19910
5	21	3.6	21	6	A19912
6	21	3.6	21	6	A131319
7	21	3.6	21	6	A134771
8	21	3.6	21	6	A240482
9	20.8	3.6	24	6	A57512
10	20.8	3.6	24	6	AR052978
11	20	3.4	30	6	A20243
12	20	3.4	30	6	I43796
13	19.2	3.3	24	6	A57514
14	19.2	3.3	24	6	AR052980
15	18.8	3.2	24	6	A57518
16	18.8	3.2	24	6	AR052984
17	18.2	3.1	23	6	AX472525
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19	18.2	3.1	25	6	AR074226
20	18.2	3.1	25	6	AX032587
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23	18	3.1	18	6	AR096377
24	18	3.1	18	6	AR096378
25	18	3.1	18	6	AR096379
26	18	3.1	18	6	AR096380
27	18	3.1	18	6	AR096381
28	18	3.1	18	6	AR096382
29	18	3.1	18	6	AR096383
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33	18	3.1	18	6	AR096387
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37	18	3.1	18	6	AR096391
38	18	3.1	18	6	AR096392
39	18	3.1	18	6	AR096393
40	18	3.1	18	6	AR096394
41	18	3.1	18	6	AR096395
42	18	3.1	18	6	AR096396
43	18	3.1	18	6	AR096397
44	18	3.1	18	6	AR096398
45	18	3.1	18	6	AR096399

Pred. No. is the number of results predicted by chance to have a

FEATURES YEDA RESEARCH AND DEVELOPMENT CO. LTD
Location/Qualifiers

BASE COUNT 6 a 6 c 7 g 9 t
ORIGIN

Query Match

Best Local Similarity 92.9%; Pred. No. 5.2e+04;
Matches 26; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 248 ATCCAGCTCTACTGCTGTTGG 275
DB ATCCAGCTCTAGACATGTTGTGG 28

RESULT 2
LOCUS A26411 29 bp DNA linear PAT 25-APR-1995
DEFINITION Oligonucleotide 2 from patent EP0417563.
ACCESSION A26411
VERSION A26411.1 GI:904967
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct.
REFERENCE 1 (bases 1 to 29)
AUTHORS Brockhaus, M., Demble, Z., Gentz, R., Lesslauer, W., Loetscher, H. and
Schlaeger, E.J.
TITLE TNF-binding proteins
JOURNAL Patent: EP 0417563-A 23 20-MAR-1991;
F. HOFFMANN-LA ROCHE AG
LOCATION/Qualifiers

FEATURES
source 1..29
/organism="synthetic construct"
/db_xref="taxon:32630"

BASE COUNT 5 a 7 c 9 g 8 t
ORIGIN

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Best Local Similarity 92.6%; Pred. No. 9.8e+04;
Matches 25; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 143 CTGAGGACTCAGGACACAGTCTGT 169
DB 29 CTGAGGACTCAGGACACAGTCTGT 3

RESULT 3
LOCUS A29670 26 bp DNA linear PAT 29-JUN-1995
DEFINITION Oligonucleotide no.1.
ACCESSION A29670
VERSION A29670.1 GI:1248973
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct.
REFERENCE 1 (bases 1 to 26)
AUTHORS Wallach, D. and Brakebusch, C.
TITLE Multimers of the soluble forms of TNF receptors, their preparation
and pharmaceutical compositions containing them
JOURNAL Patent: EP 0526805-A 1 10-FEB-1993;
YEDA RESEARCH AND DEVELOPMENT CO. LTD
LOCATION/Qualifiers

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/organism="synthetic construct"
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Best Local Similarity 92.3%; Pred. No. 1.8e+05;
Matches 24; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 531 CCCCAACCCCTTCCAGAGTGAGAG 556
DB 1 CCCCAACCCCTTCCAGAGTGAGAG 26

RESULT 4

LOCUS A19910 21 bp DNA linear PAT 04-OCT-1994
DEFINITION Synthetic 3' TNF receptor fragment for construction of pSV-TBP.
ACCESSION A19910
VERSION A19910.1 GI:641224
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct.
REFERENCE 1 (bases 1 to 21)
AUTHORS Wallach, D., Nophar, Y., Kemper, O., Engelmann, H., Brakebusch, C. and
Aderka, D.
TITLE Expression of the recombinant tumor necrosis factor binding protein
JOURNAL Patent: EP 0433900-A 31 26-JUN-1991;
YEDA RESEARCH AND DEVELOPMENT COMPANY LIMITED
LOCATION/Qualifiers

FEATURES
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/db_xref="taxon:32630"

BASE COUNT 6 a 6 c 4 g 5 t
ORIGIN

Query Match
Best Local Similarity 100.0%; Pred. No. 5.6e+05;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 112 TGCCTACCCAGATTGAGAAAT 132
DB 1 TGCCTACCCAGATTGAGAAAT 21

RESULT 5

LOCUS A19912 21 bp DNA linear PAT 04-OCT-1994
DEFINITION Synthetic 5' TNF receptor fragment for construction of pSV-TBP.
ACCESSION A19912
VERSION A19912.1 GI:641226
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct.
REFERENCE 1 (bases 1 to 21)
AUTHORS Wallach, D., Nophar, Y., Kemper, O., Engelmann, H., Brakebusch, C. and
Aderka, D.
TITLE Expression of the recombinant tumor necrosis factor binding protein
JOURNAL Patent: EP 0433900-A 33 26-JUN-1991;
YEDA RESEARCH AND DEVELOPMENT COMPANY LIMITED
LOCATION/Qualifiers

FEATURES
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/db_xref="taxon:32630"

BASE COUNT 5 a 4 c 6 g 6 t
ORIGIN

Query Match
Best Local Similarity 100.0%; Pred. No. 5.6e+05;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 112 TGCCTACCCAGATTGAGAAAT 132
DB 21 TGCCTACCCAGATTGAGAAAT 1

RESULT 6
LOCUS AR131319 21 bp DNA linear PAT 16-MAY-2001
DEFINITION Sequence 19 from patent US 6193972.
ACCESSION AR131319
VERSION AR131319.1 GI:14120222
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1. (bases 1 to 21)
AUTHORS Campbell,R.K., Jameson,B.A. and Chappel,S.C.
TITLE Hybrid heterodimeric protein hormone
JOURNAL Patent: US 6193972-A 19 27-FEB-2001;
FEATURES
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Location/Qualifiers
/organism="unknown"
BASE COUNT 2 a 5 c 7 g 7 t
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Best Local Similarity 100.0%; Pred. No. 5.6e+05;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 142 ACTGAGACTCAGGACCCACA 162
DB 21 ACTGAGACTCAGGACCCACA 1
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RESULT 7
LOCUS AR134771/c 21 bp DNA linear PAT 16-MAY-2001
DEFINITION Sequence 19 from patent US 6194177.
ACCESSION AR134771
VERSION AR134771.1 GI:14123676
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1. (bases 1 to 21)
AUTHORS Campbell,R.K., Jameson,B.A. and Chappel,S.C.
TITLE DNA encoding a hybrid heterodimeric protein
JOURNAL Patent: US 6194177-A 19 27-FEB-2001;
FEATURES
source 1..21
Location/Qualifiers
/organism="unknown"
BASE COUNT 2 a 5 c 7 g 7 t
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Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 142 ACTGAGACTCAGGACCCACA 162
DB 21 ACTGAGACTCAGGACCCACA 1
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RESULT 8
LOCUS AX404882/c 29 bp DNA linear PAT 14-JUN-2002
DEFINITION Sequence 15 from Patent WO0222833.
ACCESSION AX404882
VERSION AX404882.1 GI:21438114
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct
artificial sequences.
REFERENCE 1
AUTHORS Pfizemaler,K., Muest,T., Moosmayer,D., Grell,M. and Scheurich,P.
TITLE Fusion protein from antibody cytokine-cytokine inhibitor
(selectokine) for use as target-specific prodrg

JOURNAL Patent: WO 0222833-A 15 21-MAR-2002;
Universitaet Stuttgart (DE) ; Pfizemaler, Klaus (DE)
FEATURES
source 1..29
Location/Qualifiers
/organism="synthetic construct"
/db_xref="taxon:32630"
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Query Match 3.6%; Score 21; DB 6; Length 29;
Best Local Similarity 82.8%; Pred. No. 5.8e+05;
Matches 24; Conservative 0; Mismatches 5; Indels 0;
OY 13 CAGAACCCGCTGTGCACCTGCATGCAGG 41
DB 29 CAGAACCCGCTGTGCACCCGATCCGCAGG 1
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RESULT 9
LOCUS A57512 24 bp DNA linear PAT 03-MAR-1998
DEFINITION Sequence 4 from Patent WO9632483.
ACCESSION A57512
VERSION A57512.1 GI:3713370
KEYWORDS
SOURCE unidentified.
ORGANISM unidentified.
REFERENCE 1. (bases 1 to 24)
AUTHORS Masucci,M.G.
TITLE IMMUNE-EVADING PROTEINS
JOURNAL Patent: WO 9632483-A 4 17-OCT-1996;
MASUCCI MARIA GRAZIA (SE)
COMMENT Other publication AU 5284296 961030.
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Location/Qualifiers
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/db_xref="taxon:32644"
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Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
OY 399 TTCCACCTTCACCTCCAGCTCCAC 422
DB 1 TTCCACCGCGACCTCCAGCTCCAC 24
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RESULT 10
LOCUS AR052978 24 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 7 from patent US 5833591.
ACCESSION AR052978
VERSION AR052978.1 GI:5977840
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1. (bases 1 to 24)
AUTHORS Masucci,M.G.
TITLE Glycine-containing sequences conferring invisibility to the immune
system
JOURNAL Patent: US 5833591-A 7 10-NOV-1996;
FEATURES
source 1..24
Location/Qualifiers
/organism="unknown"
BASE COUNT 4 a 14 c 2 g 4 t
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Query Match 3.6%; Score 20.8; DB 6; Length 24;
Best Local Similarity 91.7%; Pred. No. 6.4e+05;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 399 TTCACCTTCACCTCCAGCTCCAC 422
Db 1 TTCACCCGACCTCCAGCTCCAC 24

RESULT 11

A30243/c

LOCUS R20243 30 bp DNA linear PAT 20-SEP-1995
DEFINITION Antigenic oligonucleotide 4D.
ACCESSION R20243
VERSION R20243.1 GI:1247885
KEYWORDS
SOURCE synthetic construct.
ORGANISM synthetic construct.
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source Location/Qualifiers
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/db_xref="taxon:32630"

BASE COUNT 5 a 8 c 10 g 7 t
ORIGIN

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Best Local Similarity 100.0%; Pred. No. 1.1e+06;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 13 CAGAACCCGTGTGCACCTG 32
Db 30 CAGAACCCGTGTGCACCTG 11

RESULT 12

I43796/c

LOCUS I43796 30 bp DNA linear PAT 07-OCT-1997
DEFINITION Sequence 15 from patent US 5633145.
ACCESSION I43796
VERSION I43796.1 GI:2468894
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.

REFERENCE Unclassified.
1 (bases 1 to 30)
AUTHORS Feldmann, M., Gray, P.W., Turner, M.J.C. and Brennan, F.M.
TITLE TNF alpha receptor-derived binding protein
JOURNAL Patent: US 5633145-A 15 27-MAY-1997;
FEATURES
source Location/Qualifiers
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/organism="unknown"

BASE COUNT 5 a 8 c 10 g 7 t
ORIGIN

Query Match 3.4%; Score 20; DB 6; Length 30;
Best Local Similarity 100.0%; Pred. No. 1.1e+06;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 13 CAGAACCCGTGTGCACCTG 32
Db 30 CAGAACCCGTGTGCACCTG 11

RESULT 13

A57514

LOCUS A57514 24 bp DNA linear PAT 03-MAR-1998
DEFINITION Sequence 6 from Patent WO9632483.
ACCESSION A57514
VERSION A57514.1 GI:3713372
KEYWORDS
SOURCE unidentified.
ORGANISM unidentified.

REFERENCE unclassified.
1 (bases 1 to 24)
AUTHORS Masucci, M.G.
TITLE IMMUNE-EVADING PROTEINS
JOURNAL Patent: WO 9632483-A 6 17-OCT-1996;
COMMENT MASUCCI MARIA GRAZIA (SE)
Other Publication AU 5284296 961030.
FEATURES
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BASE COUNT 3 a 14 c 2 g 5 t
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Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 399 TTCACCTTCACCTCCAGCTCCAC 422
Db 1 TTCACCCGACCTCCAGCTCCAC 24

RESULT 14
A57518/c
LOCUS AR052980 24 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 10 from patent US 5833991.
ACCESSION AR052980
VERSION AR052980.1 GI:5977842
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.

REFERENCE Unclassified.
1 (bases 1 to 24)
AUTHORS Masucci, M.G.
TITLE Glycine-containing sequences conferring invisibility to the immune system
JOURNAL Patent: US 5833991-A 10 10-NOV-1998;
FEATURES
source Location/Qualifiers
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BASE COUNT 3 a 14 c 2 g 5 t
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Query Match 3.3%; Score 19.2; DB 6; Length 24;
Best Local Similarity 87.5%; Pred. No. 1.8e+06;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 399 TTCACCTTCACCTCCAGCTCCAC 422.
Db 1 TTCACCCGACCTCCAGCTCCAC 24

RESULT 15
A57518
LOCUS A57518 24 bp DNA linear PAT 03-MAR-1998
DEFINITION Sequence 10 from Patent WO9632483.
ACCESSION A57518
VERSION A57518.1 GI:3713376
KEYWORDS
SOURCE unidentified.
ORGANISM unidentified.

REFERENCE Unclassified.
1 (bases 1 to 24)
AUTHORS Masucci, M.G.
TITLE IMMUNE-EVADING PROTEINS
JOURNAL Patent: WO 9632483-A 10 17-OCT-1996;
COMMENT MASUCCI MARIA GRAZIA (SE)
Other Publication AU 5284296 961030.
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Wed May 21 08:50:00 2003

us-09-695-451-1_copy_727_1310.lim30.rge

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Query Match

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Best Local Similarity 90.98; Pred. No. 2.3e+06;

Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY ~~TCACCCGCGACCTCCAGCTCCA~~ 421

db 2 TCACCCGCGACCTCCAGCTCCA 23

Search completed: May 21, 2003, 07:05:48
Job time 1834 secs

GenCore version 5.1.4_p5_4578
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OM nucleic - nucleic search, using sw model

Run on 5/20/03 at 19:22:44 ; Search time 221 seconds

5950.982 Million cell updates/sec

Title: US-09-695-451-1_COPY_727_1310
Perfect address: 584

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Gapop 10.0 , Gapext 1.0

Searched: 2185239 seqs, 1125999159 residues

Total number of hits satisfying chosen parameters: 1875172²⁷

Maximum DB seq length: 30

Post-processing: Minimum Match 0%

Listing first 45 summaries

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Pred. NO. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

SUMMARIES

No.	Score	Query Match	length	DB	ID	Description
c 1	25	4.3	25	21	AAA95191	Reverse primer used
c 2	23.8	4.1	29	20	AAZ09169	Human 55kDa tumour
c 3	23.8	4.1	29	22	AAH48858	Human 55 kD TNF β
c 4	21	3.6	21	18	AAI94017	Primer for TPO/hCG
c 5	21	3.6	29	24	ABA99921	Human TNFR1 PCR pr
c 6	20.8	3.6	24	19	AAV55815	Multimerisation c5
c 7	19.2	3.3	24	19	AAV55817	Multimerisation c5
c 8	19.2	3.3	27	22	AAI24737	PCR primer used to
c 9	19.2	3.3	30	20	AAI27663	DNA encoding a HRG

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13	18.8	3.2	30	17	AAV17807
14	18.4	3.2	30	24	ABL51740
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16	18.2	3.1	25	15	AAO61892
17	18.2	3.1	25	15	AAO61893
18	18.2	3.1	25	16	AAO97978
19	18	3.1	18	18	AAH87450
20	18	3.1	18	19	AAV03624
21	18	3.1	18	20	AAH87124
22	18	3.1	18	21	AAZ48521
23	18	3.1	18	21	AAZ48522
24	18	3.1	18	21	AAZ48523
25	18	3.1	18	21	AAZ48524
26	18	3.1	18	21	AAZ48525
27	18	3.1	18	21	AAZ48526
28	18	3.1	18	21	AAZ48527
29	18	3.1	18	21	AAZ48528
30	18	3.1	18	21	AAZ48529
31	18	3.1	18	21	AAZ48530
32	18	3.1	18	21	AAZ48531
33	18	3.1	18	21	AAZ48532
34	18	3.1	18	21	AAZ48533
35	18	3.1	18	21	AAZ48534
36	18	3.1	18	21	AAZ48535
37	18	3.1	18	21	AAZ48536
38	18	3.1	18	21	AAZ48537
39	18	3.1	18	21	AAZ48538
40	18	3.1	18	21	AAZ48539
41	18	3.1	18	21	AAZ48540
42	18	3.1	18	21	AAZ48541
43	18	3.1	18	21	AAZ48542
44	18	3.1	18	21	AAZ48543
45	18	3.1	18	21	AAZ48544

ALIGNMENTS

RESULT 1

ID AAA95191 standard; DNA; 25-BP

AC : AAA95191;

DT 12-JAN-2001 (first entry)

Reverse primer used to amplify exon 6 of TNFR1 gene.

KW Kwartalski; TNFR1 tumour necrosis factor receptor; polymorphism; human

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XX
DN W0300050435-21

XX 31-ATTG-2000
PD

XX 23-FEB-2000: 2000WO-TS04606
PF

XX
PR 23-FEB-1999: 99US-0121314

XX
PA (GENA-) GENAISSANCE PHARM INC.

PA (NAND/) NANDABALLAN A
PA (SCHD/) SCHUTZ V P.

PA (STEP/) STEPHENS J C
PA (CHEW/) CHEW A.

AA Nandabalan K, Schulz VP, Stephens JC, Chew A;
PI

DR WPI; 2000-543909,

CC necrosis factor (TNF). The products of the invention have
CC anti-inflammatory and antimalarial activity. (I) and (Ia) are used (1)
CC to treat diseases in which TNF is involved (e.g. septic shock, autoimmune
CC glomerulonephritis, cerebral malaria, immune responses and inflammation),
CC (II) to purify TNF, (III) to identify TNF (antagonists and (IV) for
CC diagnostic determination of TNF in body fluids. Antibodies raised against
CC (I) are used for affinity purification of (I). This sequence represents
CC a PCR primer used in the amplification of the TNF binding protein of the
CC invention.

XX Sequence 29 BP; 5 A; 7 C; 9 G; 8 T; 0 other;
XX

XX Query Match: 4.1%; Score 23.8; DB 20; Length 29;
XX Best Local Similarity 92.6%; Pred. No. 2.6e+03;
XX Matches 25; Conservative 0; Mismatches 2; Indels 0; Gaps 0

XX 143 CTGAGACTCAGGCACACAGTCTGT 169
XX CTGAGACTCAGGCACACAGTCTGT 3

XX

XX RESULT 3
XX AAH48858/c
XX ID AAH48858 standard; DNA; 29 BP.
XX AAH48858;
XX
XX 12-NOV-2001 (first entry)
XX
XX Human 55 kD TNF β extracellular fragment PCR primer 2.
XX
XX TNF; tumor necrosis factor binding protein; TNF β ; treatment;
XX insoluble protein; antiinflammatory; immunosuppressive; antibacterial;
XX antiprotocoll; treatment; meningococcal sepsis; cerebral malaria;
XX autoimmune glomerulonephritis; PCR primer; ss.
XX
XX Homo sapiens.
XX
XX EP1132471-A2.
XX
XX 12-SEP-2001.
XX
XX 31-AUG-1990; 2001EP-0108117.
XX
XX 12-SEP-1989; 89CH-0003319.
XX 08-MAR-1990; 90CH-0000746.
XX 20-APR-1990; 90CH-0001347.
XX 31-AUG-1990; 90EP-0116707.
XX 31-AUG-1990; 99EP-0100703.
XX
XX (HOFF) HOFFMANN LA ROCHE & CO AG F.
XX
XX Brockhaus W, Demble Z, Gentz R, Lesslauer W, Loetscher H;
XX Schlaeger E;
XX
XX MPI; 2001-559312/63.
XX
XX New homogeneous, insoluble proteins that bind tumor necrosis factor
XX (TNF), useful for treating TNF-mediated disorders, e.g. inflammation
XX
XX Example 11; Page 16; 26pp; German.

XX This invention describes novel insoluble proteins (I), also their
XX (II) soluble fragments and pharmaceutically acceptable salts, able to bind
XX tumor necrosis factor (TNF) and in homogeneous form. The products of the
XX invention have antiinflammatory, immunosuppressive, antibacterial,
XX antiprotocoll activity. (I), and related recombinant proteins, are used
XX to treat diseases mediated by TNF, e.g. shock in cases of meningococcal
XX sepsis; development of autoimmune glomerulonephritis and cerebral
XX malaria. Also (II) or antibodies specific for them, are used for
XX diagnostic determination of TNF in body fluids, for affinity purification
XX of TNF and for identifying (ant)agonists of TNF. This sequence represents
XX a PCR primer used in the amplification of the human 55 kD TNF β described
XX

CC In the method of the invention.
XX
SO Sequence 29 BP; 5 A; 7 C; 9 G; 8 T; 0 other;

Query Match 4.1%; Score 23.8; DB 22; Length 29;
Best Local Similarity 92.6%; Pred. No. 2.6e+03;
Matches 25; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 143 CTGAGACTCAGGACACCACTGCTGT 169
DB 29 CTGAGACTCAGGACACCACTGCTGT 3

RESULT 4
ID AAT94017 standard; DNA; 21 BP.
XX AAT94017;
XX

DT 19-MAR-1998 (first entry)
XX

DE Primer for TPO/hCG fusion gene.
XX

KM Fusion protein; thrombopoietin; TPO; human chorionic gonadotropin;
hCG; PCR primer; ss.
XX

OS Synthetic.
OS Homo sapiens.
XX

PN W09730161-A1.
XX

PD 21-ATG-1997.
XX

PF 20-FEB-1997; 97WO-US02315.
XX

PR 20-FEB-1996; 96US-0011936.
XX

XX (ISTF) ARS APPLIED RES SYSTEMS HOLDING NV.
PA

PI Campbell RK, Chappel SC, Jameson BA;
XX

DR WPI; 1997-425036/39.
XX

PT Hybrid dimeric protein comprising two co-expressed units - each
based on receptor or ligand and a subunit of a heterodimeric
PT hormone, especially FSH, for inducing follicular maturation
XX

PS Example; Page 16; 60pp; English.
XX

CC A novel fusion protein comprises 2 dimer forming co-expressed amino
acid sequences, each consisting of a homodimeric or heterodimeric
CC receptor chain or ligand, with ligand-receptor binding activity,
CC bound directly or via a peptide linker to a subunit of a
CC heterodimeric protein hormone capable of forming a heterodimer with
CC the hormone's other subunits. The fusion protein, e.g. the
CC thrombopoietin (TPO)/human chorionic gonadotropin (hCG) fusion
CC protein encoded by the fusion gene amplified by the present
CC sequence, significantly increases the biological activity of the
CC hormone component, reducing the requirement for hormone itself and
CC the number of injections needed.
XX

SO Sequence 21 BP; 2 A; 5 C; 7 G; 7 T; 0 other;

Query Match 3.6%; Score 21; DB 18; Length 21;
Best Local Similarity 100.0%; Pred. No. 1.5e+04;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 142 ACTGAGACTCAGGACACCA 162
DB 21 ACTGAGACTCAGGACACCA 1

RESULT 5

ABA9921/c
ID ABA9921 standard; DNA; 29 BP.
XX

AC ABA9921;
XX

DT 05-JUL-2002 (first entry)
XX

DE Human TNFR1 PCR primer SEQ ID 15.
XX

XX Prodrug; TNF; tumour necrosis factor; selectokine; chimeric; W24; W33;
KM cytosolic; immunomodulatory; angiogenic; apoptosis inducer;
KM gene therapy; scFv antibody OS4; fibroblast activation protein; tenascin;
KM solid tumour; angiogenesis; treatment; infection; metabolic disease;
KM PCR; primer; ss.
XX

OS Homo sapiens.
XX

PN W09730161-A1.
XX

PD 21-MAR-2002.
XX

PF 17-SEP-2001; 2001WO-EP10730.
XX

PR 15-SEP-2000; 2000DE-1045592.
XX

PA (UYST-) UNIV STUTTGART.
PA (PIZ/) PFIZENMAIER K.
XX

PI Pfizenmaier K, Wuest T, Moosmayer D, Grell M, Scheurich P;
XX

DR WPI; 2002-362351/39.
XX

PT New polypeptide prodrug, useful e.g. for treating tumors, containing
targeting region, active agent and attached inhibitor that is
PT proteolytically cleaved in target cells -
XX

PS Example 6; Page 47; 52pp; German.
XX

CC This invention describes a novel polypeptide (I) comprising, in the N
to C direction, a region (R1) that recognises selectively a specific
CC macromolecule on a cell surface and/or a component of the extracellular
CC matrix, peptide linker, a region (R2) with biological activity for a
CC specific target molecule, a region (R3) that has a processing site and a
CC region (R4) that inhibits the activity of R2, by intramolecular bonding
CC and/or interaction. The products of the invention have cytostatic,
CC immunomodulatory and antiangiogenic activity, induce apoptosis and can be
CC used for gene therapy. Kym-1 cells (20000) were incubated with the
CC prodrug W24, containing, essentially, the single-chain Fv antibody OS4,
CC specific for human fibroblast activation protein, trimerization linker,
CC mutant form of the tumour necrosis factor (TNF) precursor protein, a
CC region with a proteolytic cleavage site, and human TNF receptor-1,
CC fragment, and with trypsin (activator) for 5 minutes. After 16 hours,
CC cell viability was determined by MTT staining. Activated W24 had ID50
CC about 0.5 ng/ml, comparable with that for wild-type TNF and 4000 times
CC higher than for unactivated W24. (I), also nucleic acids encoding them and
CC related vectors, are useful particularly for treating solid tumours
CC and/or pathological angiogenesis, also generally for treating infections
CC and metabolic diseases. (I) are prodrug forms of R2 that have
CC unacceptable toxicity when administered systemically (specifically tumour
CC necrosis factor) and allow these compounds to be administered safely with
CC retention of, or even increase in, therapeutic activity. R2 is released
CC only in target tissue, resulting in a high local concentration, and
CC activity is potentiated by co-activation of receptors. This sequence
CC represents a PCR primer for the amplification of the human TNFR1 fragment
CC used in the construction of the TNF-selectokine W24 and W33
CC prodrugs described in the disclosure of the invention.
XX

SO Sequence 29 BP; 3 A; 9 C; 10 G; 7 T; 0 other;

Query Match 3.6%; Score 21; DB 24; Length 29;
Best Local Similarity 82.8%; Pred. No. 1.7e+04;
Matches 24; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

01 13 CAGAACACCGGTGTGCACCTGCATGCAG 41
 02 |||||||||||||||G|||||
 03 DB 29 CAGAACACCGGTGTGCACCGATCCGAG 1
 04
 05 RESULT 6
 06 ID AAV55815 standard; DNA; 24 BP.
 07 AAV55815
 08 AC
 09 AAV55815;
 10
 11 18-NOV-1998 (first entry)
 12
 13 Multiple alignment of minimal motifs using primer ZG52.
 14
 15 Eukaryotic protein; stabilising polypeptide; proteolytic degradation;
 16 resistance; half-life; autoimmune disease; inflammation; nitro drug;
 17 IkappaB regulator protein; inflammatory bowel disease; in vivo imaging;
 18 nitroreductase protein; enzyme therapy; prodrug therapy; protease;
 19 cancer; pathological condition; minimal motif; PCR primer.
 20
 21 Synthetic.
 22 Epstein-barr virus.
 23
 24 WO9822577-A1.
 25
 26 28-MAY-1998.
 27
 28 17-NOV-1997; 97WO-1B01508.
 29
 30 25-JUN-1997; 97US-0048945.
 31 15-NOV-1996; 96US-0030986.
 32
 33 (MASU/) MASDCI M G.
 34
 35 Masucl MG;
 36
 37 WPI: 1998-312463/27.
 38
 39 New fusion proteins resistant to proteolytic degradation -
 40 comprising a core protein with a stabilising polypeptide comprising
 41 a peptide sequence containing glycine repeats
 42
 43 Disclosure: Page 72; 120pp; English.
 44
 45 Sequences shown in AAV55812 to AAV55827 represent primers used in the
 46 course of the invention for the multimerisation of minimal motifs. The
 47 invention provides a method for increasing the resistance of a core
 48 protein to proteolytic degradation that comprises linking or inserting
 49 onto or into the core protein a stabilising polypeptide of formula
 50 (Glya)(Glyb)(Glyc)Zn where Glya, Glyb, Glyc are 1-6 sequential Gly
 51 residues and x, y, z are Ala, Ser, Val, Ile, Leu, Met, Phe, Pro or Thr
 52 and n can be anything between 1-66. x, y and z need not be identical
 53 from n repeat to n repeat. Alternatively a nucleic acid encoding a
 54 stabilising polypeptide can be linked onto or inserted into a nucleic
 55 acid encoding a core protein. The fusion proteins of the invention are
 56 more resistant to degradation by proteases and, thus, have a longer
 57 half-life than the unused core protein. The products can be used for
 58 treating autoimmune diseases, cancer and inflammation. In particular, the
 59 core protein may be an IkappaB regulator protein for the treatment of
 60 inflammatory bowel disease, or a nitroreductase protein which can
 61 activate nitro drugs in enzyme/prodrug therapy to treat cancer or other
 62 pathological conditions. The fusion proteins can also be used in
 63 diagnostic methods such as in vivo imaging.
 64
 65 Sequence 24 BP; 4 A; 14 C; 2 G; 4 T; 0 other;
 66
 67 Query Match 3.6%; Score 20.8; DB 19; Length 24;
 68 Best Local Similarity 91.7%; Pred. No. 1.8e+04;
 69 Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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Db 1 TTCACCCGACACTCCAGCTCAC 24

RESULT 7
ID AAV55817 standard; DNA; 24 BP.
AC AAV55817;
XX AAV55817;
DT 18-NOV-1998 (first entry)
XX
DE Multimerisation of minimal motifs using primer ZGR2.
XX
KW Fusion protein; stabilising polypeptide; proteolytic degradation;
KW resistance; half-life; autoimmune disease; inflammation; nitro drug;
KW IkappaB regulator protein; inflammatory bowel disease; in vivo imaging;
KW nitroreductase protein; enzyme therapy; pfodug therapy; protease;
KW cancer; pathological condition; minimal motif; PCR primer; ss.
XX
OS Synthetic.
OS Epstein-barr virus.
XX
PN WO9822577-A1.
XX
PD 28-MAY-1998.
XX
PF 17-NOV-1997; 97WO-IB01508.
XX
PR 25-JUN-1997; 97US-0048945.
PR 15-NOV-1996; 96US-0030986.
PA (MASU/) MASUCCI M G.
PI Masucci MG;
PI
DR WPI: 1998-312463/27.
XX
PT New fusion proteins resistant to proteolytic degradation -
PT comprising a core protein with a stabilising polypeptide comprising
PR a peptide sequence containing glycine repeats
XX
PS Disclosure: Page 72; 120pp; English.

Sequences shown in AAV55812 to AAV55827 represent primers used in the course of the invention for the multimerisation of minimal motifs. The invention provides a method for increasing the resistance of a core protein to proteolytic degradation that comprises linking or inserting onto or into the core protein a stabilising polypeptide of formula [(Glya)X(Glyb)Y(Glyc)Z]n where Glya, Glyb, Glyc are 1-6 sequential Gly residues and X, Y, Z are Ala, Ser, Val, Ile, Leu, Met, Phe, Pro or Thr and n can be anything between 1-66. X, Y and Z need not be identical from n repeat to n repeat. Alternatively a nucleic acid encoding a stabilising polypeptide can be linked onto or inserted into a nucleic acid encoding a core protein. The fusion proteins of the invention are more resistant to degradation by proteases and, thus, have a longer half-life than the unfused core protein. The products can be used for treating autoimmune diseases, cancer and inflammation. In particular, the core protein may be an IkappaB regulator protein for the treatment of inflammatory bowel disease, or a nitroreductase protein which can activate nitro drugs in enzyme/prodrug therapy to treat cancer or other pathological conditions. The fusion proteins can also be used in diagnostic methods such as in vivo imaging.

Sequence 24 BP; 3 A; 14 C; 2 G; 5 T; 0 other;

Query Match 3.3%; Score 19.2; DB 19; Length 24;
Best Local Similarity 87.5%; Pred. No. 5.1e-04;
Matches 21; Conservative 0; Mismatches 39; Indels 0; Gaps 0;

0Y 399 TTCACCTTCACTCCAGCTCAC 422
Db 1 TTCACCCGACACTCCAGCTCCTC 24

```

ID AAF24737 standard; DNA; 27 BP.
XX
XX AAF24737
AC AAF24737
XX
XX
DT AAF24737 (first entry)
XX
DE PCR primer used to amplify DNA encoding CBD-Tma peptide.
XX
XX protein production; food processing; protein antibiotic; feed enzyme;
KM CBD-Tma PCR primer; ss.
XX
XX Unsequenced.
OS
XX WO200077174-A1.
XX
XX 21-DEC-2000.
XX
XX 07-JUN-2000; 2000WO-IL00330.
PF
XX 10-JUN-1999; 99US-0329234.
PR
XX (CBDT-) CBD TECHNOLOGIES LTD.
PA (YISS ) YISSUM RES DEV CO HEBREW UNIV JERUSALEM.
XX
XX Shant Z, Shoseyov O;
PI
DR WPI; 2001-112219/12.
XX
XX Example; Page 48; 87pp; English.
XX
XX The specification describes a method for expressing and isolating
CC a recombinant protein in a plant. The method comprising expressing a
CC fusion protein including the recombinant protein and a cellulose
CC binding peptide fused to it, where the fusion protein is
CC compartmentalised and sequestered within plant cells; plant derived
CC tissue or cultured plant cells. The method is useful for obtaining large
CC quantities of the recombinant proteins and protein products in a simple
CC and cost-effective manner. Recombinant proteins may be used commercially,
CC such as in the food processing industry, e.g. glucanases and glucose
CC isomerases are used for converting starch to high fructose corn syrup, in
CC proteinaes for the hydrolysis of high molecular weight proteins and in
CC manufacturing leather or alcoholic beverages, pectinesterases for
CC pectin hydrolysis in food industry, lipases for cleaving ester linkage
CC in triglycerides, and for effluent treatment. The recombinant proteins
CC may further be used to produce protein antibiotics, which can be used
CC in healing processes, and to produce animal feed enzymes. PCR primers
CC AA24736-37 were used to amplify DNA encoding a CBD-Tma peptide. The
CC amplified fragment was used to produce the fusion proteins of the
CC invention.
XX
XX Sequence 27 BP; 7 A; 4 C; 12 G; 4 T; 0 other;
SO
Query Match 3.3%; Score 19.2; DB 22; Length 27;
Best Local Similarity 87.5%; Pred. No. 5.3e+04;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 520 TCAGACCCCATCCCCAACCCCTT 543
DB 26 TCAGACCCCATCCCCAACGCGTTT 3
AAAX27663
ID AAX27663 standard; DNA; 30 BP.

```

AC	AAZ27663;
XX	
DT	01-JUN-1999 (first entry)
XX	
DE	DNA encoding a HRGP motif.
XX	
KW	Synthetic gene; plant; gum; hydroxyproline-rich glycoprotein; HRGP;
KM	repetitive proline-rich protein; RPRP; arabinogalactan protein; AGP;
XX	glycopeptide; ss.
XX	
OS	Acacia sp.
PN	WO9903978-A1.
XX	
FD	28-JAN-1999.
XX	
PF	21-JUL-1998; 98WO-US15083.
XX	
PR	20-JUL-1998; 98US-0897556.
PR	21-JUL-1997; 97US-0897556.
XX	
PA	(UYOH-) UNIV OHIO.
PI	Kieliszewski MJ;
XX	
DR	WPI: 1999-132225/11.
XX	
PT	Novel synthetic gene designed from repetitive peptide sequences - of
PT	hydroxyproline-rich glycoprotein
XX	
PS	Claim 1; Page 5; 72pp; English.
XX	
CC	The invention relates to novel synthetic genes for plant gums. A new
CC	approach is described to the production of hydroxyproline-rich
CC	glycoproteins (HRGPs), repetitive proline-rich proteins (RPPs) and
CC	arabino-galactan proteins (AGPs). Synthetic genes comprising a nucleic
CC	acid encoding the peptide (MAV01267) can be engineered for the
CC	production of repetitive glycopeptide modules in cells. The invention
CC	provided a new approach to the problem of producing plant gums that is
CC	not dependent on environmental factors and greatly simplifies the
CC	production of a variety of naturally occurring gums as well as designer
CC	gums. Note: The present nucleotide sequence is indicated as a peptide
CC	sequence in the claims.
XX	
SO	Sequence 30 BP; 6 A; 19 C; 0 G; 5 T; 0 other;
XX	
Query Match	3.3%; Score 19.2; DB 20; Length 30;
Best Local Similarity	87.5%; Pred.No.5.5e+04;
Matches 21; Conservative	0; Mismatches 3; Indels 0; Gaps 0;
OY	401 CCACCTTCACCTGCAGTCCACT 424
DB	4 CCACCTTCACCTGCAGCCCCCACT 27
RESULT 10	
ABL51730	
ID	ABL51730 standard; DNA; 30 BP.
XX	
AC	ABL51730;
XX	
DT	09-JUL-2002 (first entry)
XX	
DE	HRGP related oligonucleotide SEQ ID NO:10.
XX	
KW	Plant; Gum arabic glycoprotein; GAGP; hydroxyproline-rich glycoprotein;
KM	HRGP; repetitive proline-rich protein; RPRP; arabinogalactan protein;
XX	AGP; plant gum; PCR primer; linker; ss.
XX	
OS	Acacia senegal.
OS	Synthetic.
XX	
PN	WO200178503-A2.

Example 2: Page 53; 326pp; English.

The present invention describes synthetic genes encoding plant gums and other hydroxyproline (Hyp)-rich glycoproteins (HRGs) and the nucleic acids that encode them. The nucleic acids, proteins and methods from the present invention may be used to produce HRGs, repetitive proline-rich proteins (RPPs) and arabinogalactan-proteins (AGPs) in plants via recombinant methodologies. Also described is the expression of synthetic genes designed from repetitive peptide sequences, such as glycoproteins (including the peptide sequences of gum arabic glycoprotein (GAP)).

AB151730 to AB151849 and AB178401 to AB178544 represent sequences used in the exemplification of the present invention.

Sequence 30 BP; 6 A; 19 C; 0 G; 5 T; 0 other;

Query Match 3.3%; Score 19.2; DB 24; Length 30;
Best Local Similarity 87.5%; Pred. No. 5.5e+04;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

401 CCACCTTCACCTCCAGTCACCT 424
|||||
4 CCACCTTCACCTCCACCCCATCT 27

RESULT 12
AAV55821
ID AAV55821 standard; DNA; 24 BP.

AAV55821;
18-NOV-1998 (first entry)

Multimerisation of minimal motifs using primer ZGR2.

Fusion protein; stabilising polypeptide; proteolytic degradation;
resistance; half-life; autoimmune disease; inflammation; nitro drug;
IkappaB regulator protein; inflammatory bowel disease; in vivo imaging;
nitroreductase protein; enzyme therapy; prodrug therapy; protease;
cancer; pathological condition; minimal motif; PCR primer; ss.

Synthetic.
Epstein-barr virus.

WO9822577-A1.
28-MAY-1998.
17-NOV-1997; 97WO-IB01508.
25-JUN-1997; 97US-0048945.
15-NOV-1996; 96US-0030986.
(MASU/) MASUCCI M G.
Masucci MG;
WPI; 1998-312463/27.

New fusion proteins resistant to proteolytic degradation -
comprising a core protein with a stabilising polypeptide comprising
a peptide sequence containing glycine repeats.

Disclosure; Page 72; 120pp; English.

Sequences shown in AAV55812 to AAV55827 represent primers used in the
course of the invention for the multimerisation of minimal motifs. The
invention provides a method for increasing the resistance of a core
protein to proteolytic degradation that comprises linking or inserting
onto or into the core protein a stabilising polypeptide of formula
[(Gly)X(Gly)Z]n where Glya, Glyb, Glyc are 1-6 sequential Gly
residues and X, Y, Z are Ala, Ser, Val, Ile, Leu, Met, Phe, Pro or Thr
and n can be anything between 1-66. X, Y and Z need not be identical

CC from a repeat to a repeat. Alternatively a nucleic acid encoding a
 CC stabilizing polypeptide can be linked onto or inserted into a nucleic
 CC acid encoding a core protein. The fusion proteins of the invention are
 CC more resistant to degradation by proteases and, thus, have a longer
 CC half-life than the unlinked core protein. The products can be used for
 CC treating autoimmune diseases, cancer and inflammation. In particular, the
 CC core protein may be an Ikappab regulator protein for the treatment of
 CC inflammatory bowel disease, or a nitroreductase protein which can
 CC activate nitro drugs in enzyme/prodrug therapy to treat cancer or other
 CC pathological conditions. The fusion proteins can also be used in
 CC diagnostic methods such as in vivo imaging.

CC Sequence 24 BP; 5 A; 13 C; 2 G; 4 T; 0 other;

Query Match 3.2%; Score 18.8; DB 19; Length 24;
 Best Local Similarity 90.9%; Pred. No. 6.6e+04;
 Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 400 TCCACCTGACCTCCAGCTCA 421
 DB 2 TCCACCTGACCTCCAGCTCA 23

RESULT 13

AA117807/C
 ID AA117807 standard; DNA; 30 BP.

AC AA117807;

DT 30-OCT-1996 (first entry)

DE Glycosaminoglycan-degrading enzyme inhibitor LGSPS.

KW Glycosaminoglycan-degrading enzyme; GDE; inhibitor; endoglycosidase;
 KW heparinase; heparinase; mammalian; bacterial; platelet; macrophage;
 KW neutrophil; leukocyte; endothelial cell; smooth muscle cell; carcinoma;
 KW tumour cell; activation; proliferation; migration; cancer; inflammation;
 KW autoimmune disorder; infection; pathogenic organism; atherosclerosis;
 KW cardiovascular disease; vascular hyperplasia; restenosis; therapy; ss.
 OS Synthetic.

Key Location/Qualifiers
 FT 1..30
 modified_base

FT /tag= a
 FT /note= "phosphorothioate, or phosphorodithioate backbone"

PN WO9608559-A1.

PD 21-MAR-1996.

PF 13-SEP-1995; 95WO-AU00600.

PR 14-AUG-1995; 95AU-0004769.

PR 16-SEP-1994; 94AU-0008226.

PR 16-SEP-1994; 94AU-0008227.

PA (CARD-) CARDIAC CRC NOMINEES PTY LTD.

PI Graham L, Underwood PA;

DR WPI; 1996-179936/18.

XX Oligo(nucleotide(s) having sulphur substns. between nucleoside(s)
 XX for inhibiting glycosaminoglycan-degrading enzymes, for treating,
 XX e.g. cancer, inflammation, infection or autoimmune disorders.

PS Claim 6; Page 33; 73pp; English.

CC AA117805-117808, and AA117810-117813 represent
 CC glycosaminoglycan-degrading enzyme (GDE) inhibitors. The GDEs which
 CC these sequences inhibit are endoglycosidases (which cleave
 CC glycosaminoglycan chains at internal sites), preferably heparanases (also

CC known as heparinases) of mammalian or bacterial origin. These
 CC sequences can be used for inhibiting GDEs associated with platelets,
 CC macrophages, neutrophils, leukocytes, endothelial cells, smooth muscle
 CC cells, carcinoma and tumour cells, and bacteria. They can also be used
 CC to inhibit smooth muscle cell activation, proliferation or migration.
 CC The sequences can be used to treat cancer, inflammation, autoimmune
 CC diseases, infection caused by pathogenic organisms, and cardiovascular
 CC disease, such as vascular hyperplasia, restenosis and atherosclerosis.
 CC These inhibitors can also be used as biochemical reagents for studying
 CC GDE activities and mechanisms of enzyme activity.

CC Sequence 30 BP; 0 A; 5 C; 20 G; 5 T; 0 other;

Query Match 3.2%; Score 18.8; DB 17; Length 30;
 Best Local Similarity 76.7%; Pred. No. 7.2e+04;
 Matches 23; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

OY 411 GCCCTGCCCTGACCCGATCCCAACCC 540
 DB 30 GACCCGACCCGACCCGACCCGACCC 1

RESULT 14

ABL51740/C
 ID ABL51740 standard; DNA; 30 BP.

AC ABL51740;

DT 09-JUL-2002 (first entry)

DE Hydroxyproline-rich glycoprotein (HRGP) related linker SEQ ID NO:39.

KW Plant; Gum arabic glycoprotein; GAGP; hydroxyproline-rich glycoprotein;
 KW HRGP; repetitive proline-rich protein; RRP; arabinogalactan protein;
 KW AGP; plant gum; PCR primer; linker; ss.

OS Acacia senegal.
 OS Synthetic.

PN WO200178503-A2.

PD 25-OCT-2001.

PF 12-APR-2001; 2001WO-US12336.

PR 12-APR-2000; 2000US-0547693.

PA (UYOH-) UNIV OHIO.

PI Kteliszewski MJ;

DR WPI; 2002-041307/05.

XX Nucleic acids and proteins useful for producing hydroxy-proline rich
 XX glycoproteins in plants

PS Example 2; Page 53; 326pp; English.

CC The present invention describes synthetic genes encoding plant gums and
 CC other hydroxyproline (Hyp)-rich glycoproteins (HRGPs) and the nucleic
 CC acids that encode them. The nucleic acids, proteins and methods from the
 CC present invention may be used to produce HRGPs, repetitive proline-rich
 CC proteins (RPRPs) and arabinogalactan-proteins (AGPs) in plants via
 CC recombinant methodologies. Also described is the expression of synthetic
 CC genes designed from repetitive peptide sequences, such as glycoproteins
 CC (including the peptide sequences of gum arabic glycoprotein (GAGP)).
 CC ABL51730 to ABL51849 and ABB78401 to ABB78544 represent sequences used
 CC in the exemplification of the present invention.

CC Sequence 30 BP; 5 A; 0 C; 19 G; 6 T; 0 other;

Query Match 3.2%; Score 18.4; DB 24; Length 30;
 Best Local Similarity 78.6%; Pred. No. 9.4e+04;

Matches 22; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

OY 402 CACCTTACCTCCAGCTCCACTTATACC 429
 DB 29 CACCTTCACCCCATCTCCACACACACC 2

Search completed: May 21, 2003, 06:35:23
 Job time : 223 secs

RESULTS

ID ABK97993 standard; DNA: 23 BP.

AC ABK97993

DT 07-DEC-2002 (first entry)

DE Cell-free method associated GATA mut oligonucleotide.

KW Transcription factor; transcription factor-responsive element;

OS Synthetic.

PN WO200252039-A2.

PD 04-JUL-2002.

PF 21-DEC-2001; 2001WO-CA01861.

PR 27-DEC-2000; 2000CA-2327581.

PA (GENE-) GENEKA BIOTECHNOLOGY INC.

PI Blais Y, Rousseau P, Leblanc B, Camato RN;

DR WPI; 2002-575388/61.

PT A Cell-TRAP method, useful for producing or validating therapeutic
 PT compounds, by employing a recombinant cell-based library that carry
 PT constructs driven by a minimal promoter and a transcription
 PT factor-responsive element -

PS Disclosure; Page 24; 44pp; English.

CC This invention relates to a cell-TRAP method for selecting and producing
 CC a therapeutic compound which is presumed selective for one or a
 CC restricted set of given transcriptional pathways and cell types by
 CC employing a recombinant cell-based library that carries a construct
 CC comprising a reporter gene driven by a minimal promoter and a
 CC transcription factor-responsive element (TFRE). The invention also
 CC comprises a method for validating a putative compound as a selective
 CC therapeutic compound towards a transcription factor response element.
 CC The method of the invention is useful for determining the
 CC transcriptional activation pathways used by any compound that is
 CC biologically active in a cell. This method allows a global view of gene
 CC transcription activation in response to diverse stimuli in multiple
 CC environments and is a significant improvement over case-by-case
 CC approaches, which would be limited to certain aspects of gene
 CC activation. It permits to save on clinical trials by screening properly
 CC the compounds that would have a lesser probability of providing
 CC undesirable, even severe side effects. The present sequence
 CC represents a double stranded oligonucleotide probe recognised by a
 CC specific transcription factor which is used in the method of the
 CC invention.

XX Sequence 23 BP; 2 A; 9 C; 8 G; 4 T; 0 other;

Query Match 3 1%; Score 18.2; DB 24; Length 23;

Best Local Similarity 87.0%; Pred. No. 9.6e+04;

Matches 20; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 457 CCGCGAGAGAGTGGCACCACC 479

DB 23 CCGCGAGAGAGTGGCACCACC 1

OY 142 ACTGAGACTCAGCACCACA 162
DB 21 ACTGAGACTCAGCACCACA 1

RESULT 2

US-08-910-991-19/c
Sequence 19, Application US/08910991
Patent No. 6194177

GENERAL INFORMATION:

APPLICANT: Campbell, Robert K.
APPLICANT: Jameson, Bradford A.
APPLICANT: Chappel, Scott C.
TITLE OF INVENTION: HYBRID PROTEINS
NUMBER OF SEQUENCES: 32

CORRESPONDENCE ADDRESS:

ADDRESSEE: BROWDY AND NEWMARK
STREET: 419 Seventh Street N.W., Ste. 300
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 22207

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/910,991
FILING DATE:
CLASSIFICATION: 530

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/804,166
FILING DATE: 20 February 1997
PRIOR APPLICATION DATA: 60/011,936
APPLICATION NUMBER: 60/011,936
FILING DATE: 20 February 1996

ATTORNEY/AGENT INFORMATION:

NAME: YUN, Allen C.
REGISTRATION NUMBER: 37,971
REFERENCE/DOCKET NUMBER: CAMPBELL-28
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 628-5197
TELEFAX: (202) 737-3528

INFORMATION FOR SEQ ID NO: 19:

SEQUENCE CHARACTERISTICS:
LENGTH: 21 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-08-910-991-19

Query Match 3.6%; Score 21; DB 4; Length 21;
Best Local Similarity 100.0%; Pred. No. 1.3e+03;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 142 ACTGAGACTCAGCACCACA 162
DB 21 ACTGAGACTCAGCACCACA 1

RESULT 3

US-08-529-1908-7
Sequence 7, Application US/085291908
Patent No. 5833991

GENERAL INFORMATION:

APPLICANT: Masucci, Maria G.
TITLE OF INVENTION: GLYCINE-CONTAINING SEQUENCES
NUMBER OF SEQUENCES: 76
CORRESPONDENCE ADDRESS:
ADDRESSEE: Banner & Witcoff, Ltd.

STREET: One Financial Center
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02111

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: Wordperfect 6.1

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/529,190B
FILING DATE: 15-SEP-1995
CLASSIFICATION: 514

PRIOR APPLICATION DATA:

APPLICATION NUMBER: SE8501324-9
FILING DATE: 10-APR-1995

FOR APPLICATION DATA:

APPLICATION NUMBER: US08/522,595
FILING DATE: 01-SEP-1995
ATTORNEY/AGENT INFORMATION:

NAME: Williams, Ph.D., Kathleen A
REGISTRATION NUMBER: 34,380
REFERENCE/DOCKET NUMBER: 3255/53015
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-345-9100
TELEFAX: 617-345-9111

INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHARACTERISTICS:
LENGTH: 24 bases
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
US-08-529-1908-7

Query Match 3.6%; Score 20.8; DB 2; Length 24;
Best Local Similarity 91.7%; Pred. No. 1.6e+03;
Matches 22; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 399 TTCACCTTCACCTCAGCTCCAC 422
DB 1 TTCACCTTCACCTCAGCTCCAC 24

RESULT 4

US-08-050-319B-15/c
Sequence 15, Application US/08050319B
Patent No. 5633145

GENERAL INFORMATION:

APPLICANT: M. Feldmann, P. W. Gray,
TITLE OF INVENTION: Modified human TNFalpha (Tumor
NUMBER OF SEQUENCES: 57
CORRESPONDENCE ADDRESS:
ADDRESSEE: Reed & Robbins
STREET: 635 Bryant Street
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94301

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/050,319B
FILING DATE: 10-May-1993
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: Robbins, Roberta L.

REGISTRATION NUMBER: 33,208
REFERENCE/DOCKET NUMBER: 5150-0030
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 617-8999
TELEFAX: (415) 327-3231
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 30 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-050/415B-15

Query Match 3.4%; Score 20; DB 1; Length 30;
Best Local Similarity 100.0%; Pred. No. 3e+03;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 13 CAGAACCGGTGTGCACCTG 32
DB 30 CAGAACCGGTGTGCACCTG 11

RESULT 5
US-08-465-982-15/c
Sequence 15, Application US/08465982
Patent No. 5863786
GENERAL INFORMATION:
APPLICANT: M. Feldmann, P. W. Gray,
APPLICANT: M. J. C. Turner, F. M. Brennan
TITLE OF INVENTION: Modified human TNFalpha (Tumor
Necrosis Factor alpha) Receptor
NUMBER OF SEQUENCES: 57
CORRESPONDENCE ADDRESS:
ADDRESSEE: Reed & Robbins
STREET: 635 Bryant Street
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94301
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/465,982
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/050,319
FILING DATE: 10-MAY-1993
ATTORNEY/AGENT INFORMATION:
NAME: Robbins, Roberta L.
REGISTRATION NUMBER: 33,208
REFERENCE/DOCKET NUMBER: 5150-0030
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 617-8999
TELEFAX: (415) 327-3231
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 30 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-465-982-15

Query Match 3.4%; Score 20; DB 2; Length 30;
Best Local Similarity 100.0%; Pred. No. 3e+03;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 13 CAGAACCGGTGTGCACCTG 32

DB 30 CAGAACCGGTGTGCACCTG 11

RESULT 6
US-08-529-190B-10
Sequence 10, Application US/08529190B
Patent No. 5833991
GENERAL INFORMATION:
APPLICANT: Masucci, Maria G.
TITLE OF INVENTION: GLYCINE-CONTAINING SEQUENCES
TITLE OF INVENTION: CONFERRING INVISIBILITY TO THE IMMUNE SYSTEM
NUMBER OF SEQUENCES: 76
CORRESPONDENCE ADDRESS:
ADDRESSEE: Banner & Witcoff, Ltd.
STREET: One Financial Center
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02111
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: Wordperfect 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/529,190B
FILING DATE: 15-SEP-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: SE9501324-9
FILING DATE: 10-APR-1995
APPLICATION DATA:
APPLICATION NUMBER: US08/522,595
FILING DATE: 01-SEP-1995
ATTORNEY/AGENT INFORMATION:
NAME: Williams, Ph.D., Kathleen A
REGISTRATION NUMBER: 34,380
REFERENCE/DOCKET NUMBER: 3255/53015
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-345-9100
TELEFAX: 617-345-9111
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 bases
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-529-190B-10

Query Match 3.3%; Score 19.2; DB 2; Length 24;
Best Local Similarity 87.5%; Pred. No. 4.7e+03;
Matches 21; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 399 TTCACCTTCACCTCCAGCTCCAC 422
DB 1 TTCACCTTCACCTCCAGCTCCAC 24

RESULT 7
US-08-529-190B-16
Sequence 16, Application US/08529190B
Patent No. 5833991
GENERAL INFORMATION:
APPLICANT: Masucci, Maria G.
TITLE OF INVENTION: GLYCINE-CONTAINING SEQUENCES
TITLE OF INVENTION: CONFERRING INVISIBILITY TO THE IMMUNE SYSTEM
NUMBER OF SEQUENCES: 76
CORRESPONDENCE ADDRESS:
ADDRESSEE: Banner & Witcoff, Ltd.
STREET: One Financial Center
CITY: Boston
STATE: MA

COUNTRY: USA
ZIP: 02111
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: Wordperfect 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/529.1908
FILING DATE: 15-SEP-1995
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: SE9501324-9
FILING DATE: 10-APR-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US08/522,595
FILING DATE: 01-SEP-1995
ATTORNEY/AGENT INFORMATION:
NAME: Williams, Ph.D., Kathleen A
REGISTRATION NUMBER: 34,380
REFERENCE/DOCKET NUMBER: 3255/53015
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-345-9100
TELEFAX: 617-345-9111
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 bases
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
US-08-529-1908-16

Query Match 3.2%; Score 18.8; DB 2; Length 24;
Best Local Similarity 90.9%; Pred. No. 6.2e+03;
Matches 20; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 400 TCCACCTTCACCTCCAGCTCCA 421
DB 2 TCCACCGACACTCCAGCTCCA 23

RESULT 8
US-08-403-888A-33/C
Sequence 33, Application US/08403888A
Patent No. 5952490
GENERAL INFORMATION:
APPLICANT: Hanecak et al.
TITLE OF INVENTION: Oligonucleotides Having A Conserved G4 Core
TITLE OF INVENTION: Sequence
NUMBER OF SEQUENCES: 146
CORRESPONDENCE ADDRESS:
ADDRESS: Woodcock Washburn Kurtz Mackiewicz & No. 5952490rls LLP
STREET: One Liberty Place - 46th Floor
CITY: Philadelphia
STATE: PA
COUNTRY: U.S.A.
ZIP: 19103
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch disk, 1.44 MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Wordperfect 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/403,888A
FILING DATE: 12-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/954,185
FILING DATE: 29-SEP-1992
ATTORNEY/AGENT INFORMATION:
NAME: Paul K. Legard
REGISTRATION NUMBER: 38,534

REFERENCE/DOCKET NUMBER: ISIS-1229
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
INFORMATION FOR SEQ ID NO: 33:
SEQUENCE CHARACTERISTICS:
LENGTH: 25
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-403-888A-33

Query Match 3.1%; Score 18.2; DB 2; Length 25;
Best Local Similarity 87.0%; Pred. No. 9.6e+03;
Matches 20; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 518 CCTCGACCCCATCCCAACCC 540
DB CCCCCAACCCCAACCCCAACCC 3

RESULT 9
US-08-403-888A-34/C
Sequence 34, Application US/08403888A
Patent No. 5952490
GENERAL INFORMATION:
APPLICANT: Hanecak et al.
TITLE OF INVENTION: Oligonucleotides Having A Conserved G4 Core
TITLE OF INVENTION: Sequence
NUMBER OF SEQUENCES: 146
CORRESPONDENCE ADDRESS:
ADDRESS: Woodcock Washburn Kurtz Mackiewicz & No. 5952490rls LLP
STREET: One Liberty Place - 46th Floor
CITY: Philadelphia
STATE: PA
COUNTRY: U.S.A.
ZIP: 19103
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch disk, 1.44 MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Wordperfect 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/403,888A
FILING DATE: 12-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/954,185
FILING DATE: 29-SEP-1992
ATTORNEY/AGENT INFORMATION:
NAME: Paul K. Legard
REGISTRATION NUMBER: 38,534
REFERENCE/DOCKET NUMBER: ISIS-1229
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-568-3100
TELEFAX: 215-568-3439
INFORMATION FOR SEQ ID NO: 34:
SEQUENCE CHARACTERISTICS:
LENGTH: 25
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-403-888A-34

Query Match 3.1%; Score 18.2; DB 2; Length 25;
Best Local Similarity 87.0%; Pred. No. 9.6e+03;
Matches 20; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 518 CCTCGACCCCATCCCAACCC 540
DB CCCCCAACCCCAACCCCAACCC 3

RESULT 10
US-08-192-102-15/c

Sequence 15, Application US/08192102

Patent No. 5656272

GENERAL INFORMATION:

APPLICANT: Le, Junming

APPLICANT: Vilcek, Jan

APPLICANT: Daddona, Peter E.

APPLICANT: Chirayeb, John

APPLICANT: Knight, David M.

APPLICANT: Siegel, Scott A.

TITLE OF INVENTION: ANTI-TNF ANTIBODIES AND ASSAYS EMPLOYING

TITLE OF INVENTION: ANTI-TNF ANTIBODIES

NUMBER OF SEQUENCES: 19

CORRESPONDENCE ADDRESS:

ADDRESS: Hamilton, Brook, Smith & Reynolds, P.C.

STREET: Two Millitia Drive

CITY: Lexington

STATE: Massachusetts

COUNTRY: USA

ZIP: 02173

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/192,102

FILING DATE: 04-FEB-1994

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/192,093

FILING DATE: 04-FEB-1994

APPLICATION NUMBER: US/08/013,413

FILING DATE: 02-FEB-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/010,406

FILING DATE: 29-JAN-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/07/943,852

FILING DATE: 11-SEP-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/07/853,606

FILING DATE: 18-MAR-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/07/670,827

FILING DATE: 18-MAR-1991

ATTORNEY/AGENT INFORMATION:

NAME: Brook, David E.

REGISTRATION NUMBER: 22,592

REFERENCE/DOCKET NUMBER: NT093-01M3

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 861-6240

TELEFAX: (617) 861-9540

INFORMATION FOR SEQ ID NO: 15:

SEQUENCE CHARACTERISTICS:

LENGTH: 18 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: CDNA

US-08-192-102-15

Query Match 3.1%; Score 18; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 9.4e+03;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 109 TTGTGCTACCCAGATT 126

DB 18 TTGTGCTACCCAGATT 1

RESULT 11

US-08-324-799-15/c

Sequence 15, Application US/08324799

Patent No. 5698195

GENERAL INFORMATION:

APPLICANT: Le, Junming

APPLICANT: Vilcek, Jan

APPLICANT: Daddona, Peter E.

APPLICANT: Chirayeb, John

APPLICANT: Knight, David M.

APPLICANT: Siegel, Scott A.

TITLE OF INVENTION: ANTI-TNF ANTIBODIES AND PEPTIDES

TITLE OF INVENTION: OF HUMAN TUMOR NECROSIS FACTOR

NUMBER OF SEQUENCES: 19

CORRESPONDENCE ADDRESS:

ADDRESS: Hamilton, Brook, Smith & Reynolds, P.C.

STREET: Two Millitia Drive

CITY: Lexington

STATE: Massachusetts

COUNTRY: USA

ZIP: 02173

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/324,799

FILING DATE: 18-OCT-1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/192,093

FILING DATE: 04-FEB-1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/192,102

FILING DATE: 04-FEB-1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/192,861

FILING DATE: 04-FEB-1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/013,413

FILING DATE: 02-FEB-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/010,406

FILING DATE: 29-JAN-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/07/943,852

FILING DATE: 11-SEP-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/07/853,606

FILING DATE: 18-MAR-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/07/670,827

FILING DATE: 18-MAR-1991

ATTORNEY/AGENT INFORMATION:

NAME: Brook, David E.

REGISTRATION NUMBER: 22,592

REFERENCE/DOCKET NUMBER: NT093-01M4

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 861-6240

TELEFAX: (617) 861-9540

INFORMATION FOR SEQ ID NO: 15:

SEQUENCE CHARACTERISTICS:

LENGTH: 18 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: CDNA

US-08-324-799-15

Query Match 3.1%; Score 18; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 9.4e+03;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 109 TTGTGCTACCCAGATT 126

Db 18 TTGTGCTACCCAGATT 1

RESULT 12

US-08-192-861A-15/C
Sequence 15; Application US/08192861A
Patent No. 5919452

GENERAL INFORMATION:

APPLICANT: Ie, Junlung
APPLICANT: Vllcek, Jan
APPLICANT: Daddona, Peter E.
APPLICANT: Ghayeb, John
APPLICANT: Knight, David M.
APPLICANT: Siegel, Scott A.
TITLE OF INVENTION: METHODS OF TREATING TNF-MEDIATED DISEASE USING
TITLE OF INVENTION: CHIMERIC ANTI-TNF ANTIBODIES (As Amended)
NUMBER OF SEQUENCES: 19
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
STREET: Two Millita Drive
CITY: Lexington
STATE: Massachusetts
COUNTRY: USA
ZIP: 02173

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/192,861A
FILING DATE: 04-FEB-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/013,413
FILING DATE: 02-FEB-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/010,406
FILING DATE: 29-JAN-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/943,852
FILING DATE: 11-SEP-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/853,606
FILING DATE: 18-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/670,827
FILING DATE: 18-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Brook, David E.
REGISTRATION NUMBER: 22,592
REFERENCE/DOCKET NUMBER: NY93-01M2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (781) 861-6240
TELEFAX: (781) 861-9540
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-08-192-861A-15

Query Match

Best Local Similarity: 3.1%; Score 18; DB 2; Length 18;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 109 TTGTGCTACCCAGATT 126
Db 18 TTGTGCTACCCAGATT 1

RESULT 13

US-09-106-038A-47/C
Sequence 47; Application US/09106038A
Patent No. 6007995

GENERAL INFORMATION:

APPLICANT: Brenda F. Baker and Iex M. Cowser
TITLE OF INVENTION: ANTISENSE MODULATION OF TNFR1
TITLE OF INVENTION: EXPRESSION
NUMBER OF SEQUENCES: 91
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Isis Pharmaceuticals, Inc.
STREET: 2292 Faraday Avenue
CITY: Carlsbad
STATE: CA
COUNTRY: U.S.A.
ZIP: 92008

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch disk, 1.44 MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/106,038A
FILING DATE: June 26, 1998
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Laurel Spear Bernstein
REGISTRATION NUMBER: 37,280
REFERENCE/DOCKET NUMBER: RTS-0004
TELECOMMUNICATION INFORMATION:
TELEPHONE: (760) 931-9200
TELEFAX: (760) 603-3820
INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
LENGTH: 18
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-106-038A-47

Query Match

Best Local Similarity: 3.1%; Score 18; DB 3; Length 18;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 GGAGAAACGACACCGT 23
Db 18 GGAGAAACGACACCGT 1

RESULT 14

US-09-106-038A-48/C
Sequence 48; Application US/09106038A
Patent No. 6007995

GENERAL INFORMATION:

APPLICANT: Brenda F. Baker and Iex M. Cowser
TITLE OF INVENTION: ANTISENSE MODULATION OF TNFR1
TITLE OF INVENTION: EXPRESSION
NUMBER OF SEQUENCES: 91
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Isis Pharmaceuticals, Inc.
STREET: 2292 Faraday Avenue
CITY: Carlsbad
STATE: CA
COUNTRY: U.S.A.
ZIP: 92008

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch disk, 1.44 MB
COMPUTER: IBM PC compatible
OPERATING SYSTEM: Windows NT
SOFTWARE: Microsoft Word 97
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/106,038A
FILING DATE: June 26, 1998

CLASSIFICATION: 514

ATTORNEY/AGENT INFORMATION:

NAME: Laurel Spear Bernstein

REGISTRATION NUMBER: 37,280

REFERENCE/DOCKET NUMBER: RTS-0004

TELECOMMUNICATION INFORMATION:

TELEPHONE: (760) 931-9200

TELEFAX: (760) 603-3820

INFORMATION FOR SEQ ID NO: 48:

SEQUENCE CHARACTERISTICS:

LENGTH: 18

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

US-09-106-038A-48

Query Match

Best Local Similarity 3.1%; Score 18; DB 3; Length 18;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 60 CGAGTGTCTCTCTGTAG 77

DB 18 CGAGTGTCTCTCTGTAG 1

RESULT 15

US-09-106-038A-49/c

Sequence 49, Application US/09106038A

Patent No. 6007995

GENERAL INFORMATION:

APPLICANT: Brenda F. Baker and Lex M. Cowsett

TITLE OF INVENTION: ANTISENSE MODULATION OF TNFR1

NUMBER OF SEQUENCES: 91

CORRESPONDENCE ADDRESS:

ADDRESSEE: Isis Pharmaceuticals, Inc.

STREET: 2292 Faraday Avenue

CITY: Carlsbad

STATE: CA

COUNTRY: U.S.A.

ZIP: 92008

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch disk, 1.44 MB

COMPUTER: IBM PC compatible

OPERATING SYSTEM: Windows NT

SOFTWARE: Microsoft Word 97

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/106,038A

FILING DATE: June 26, 1998

CLASSIFICATION: 514

ATTORNEY/AGENT INFORMATION:

NAME: Laurel Spear Bernstein

REGISTRATION NUMBER: 37,280

REFERENCE/DOCKET NUMBER: RTS-0004

TELECOMMUNICATION INFORMATION:

TELEPHONE: (760) 931-9200

TELEFAX: (760) 603-3820

INFORMATION FOR SEQ ID NO: 49:

SEQUENCE CHARACTERISTICS:

LENGTH: 18

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

US-09-106-038A-49

Query Match

Best Local Similarity 3.1%; Score 18; DB 3; Length 18;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 70 TCCTGTAGTACTGTAG 87

DB 18 TCCTGTAGTACTGTAG 1

Search completed: May 21, 2003, 07:31:30
Job time: 77 secs

GenCore version 5.1.4_p5_4578
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OM nucleic - nucleic search, using SW model

Run on: May 21, 2003, 06:31:36 ; Search time 128 seconds
(without adjustments)

6024.609 million cell updates/sec

US-09-695-451-1_COPY_727_1310

Sequence 1 1 tgcagagagaacagacac.....cacaagccacagagcctaga 584

Scoring cable: IDENTITY_NUC

Searched: 828747 seqs, 660231138 residues

Total number of hits satisfying chosen parameters: 375196²⁷

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Minimum DB seq length: 0
Maximum DB seq length: 30
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Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : Published_Applications_NA:*

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- 2: /cgn2_6/prodata/2/pubnpna/PCT_NEW_PUB.seq.*
- 3: /cgn2_6/prodata/2/pubnpna/US06_NEW_PUB.seq.*
- 4: /cgn2_6/prodata/2/pubnpna/US06_PUBCOMB.seq.*
- 5: /cgn2_6/prodata/2/pubnpna/US07_NEW_PUB.seq.*
- 6: /cgn2_6/prodata/2/pubnpna/PCTUS_PUBCOMB.seq.*
- 7: /cgn2_6/prodata/2/pubnpna/US08_NEW_PUB.seq.*
- 8: /cgn2_6/prodata/2/pubnpna/US08_PUBCOMB.seq.*
- 9: /cgn2_6/prodata/2/pubnpna/US09_NEW_PUB.seq.*
- 10: /cgn2_6/prodata/2/pubnpna/US09_PUBCOMB.seq.*
- 11: /cgn2_6/prodata/2/pubnpna/US10_NEW_PUB.seq.*
- 12: /cgn2_6/prodata/2/pubnpna/US10_PUBCOMB.seq.*
- 13: /cgn2_6/prodata/2/pubnpna/US60_NEW_PUB.seq.*
- 14: /cgn2_6/prodata/2/pubnpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	30	5.1	30	9	US-09-898-334-9	Sequence 9, Appl11
2	30	5.1	30	9	US-09-792-356-9	Sequence 9, Appl1
3	30	5.1	30	10	US-09-699-422-9	Sequence 9, Appl
c 4	21	3.6	21	10	US-09-756-186-19	Sequence 19, Appl
c 5	18.6	3.2	30	10	US-09-628-034-7	Sequence 7, Appl
c 6	18.2	3.1	23	9	US-10-113-877-128	Sequence 128, Appl
c 7	18	3.1	18	9	US-10-043-432-15	Sequence 13, Appl
c 8	18	3.1	18	10	US-09-756-301A-15	Sequence 15, Appl
c 9	18	3.1	18	10	US-09-927-703-15	Sequence 15, Appl
c 10	18	3.1	18	10	US-09-766-538A-15	Sequence 15, Appl
c 11	18	3.1	18	10	US-09-756-161A-15	Sequence 15, Appl
c 12	18	3.1	18	12	US-10-010-220-15	Sequence 15, Appl
c 13	18	3.1	18	12	US-10-043-450-15	Sequence 15, Appl
c 14	18	3.1	18	12	US-10-044-534-15	Sequence 15, Appl
c 15	18	3.1	24	10	US-09-757-041-11	Sequence 11, Appl
c 16	18	3.1	30	10	US-09-610-502-25	Sequence 25, Appl
c 17	17.4	3.0	30	9	US-10-085-906-221	Sequence 221, Appl
c 18	16.8	2.9	21	9	US-09-949-427-355	Sequence 355, Appl
c 19	16.2	2.8	25	9	US-09-746-783-203	Sequence 203, Appl

20	15.8	2.7	27	9	US-09-949-427-56	Sequence 56, Appl1
C 21	15.8	2.7	27	10	US-09-735-363A-3	Sequence 68, Appl1
C 22	15.8	2.7	27	10	US-09-735-363A-68	Sequence 13, Appl1
C 23	15.8	2.7	28	9	US-10-023-066A-15	Sequence 4, Appl1
C 24	15.8	2.7	29	10	US-09-756-283A-4	Sequence 1966, Ap
C 25	15.6	2.7	25	9	US-10-215-112-1896	Sequence 2122, Ap
C 26	15.6	2.7	25	9	US-10-215-112-2122	Sequence 13915, Ap
C 27	15.6	2.7	25	10	US-09-866-108-13915	Sequence 13916, A
C 28	15.6	2.7	25	10	US-09-866-108-13916	Sequence 13917, A
C 29	15.6	2.7	25	10	US-09-866-108-13917	Sequence 13918, A
C 30	15.6	2.7	25	10	US-09-866-108-13918	Sequence 29, Appl
C 31	15.6	2.7	25	10	US-09-441-522-29	Sequence 216, Appl
C 32	15.6	2.7	29	10	US-09-745-763-216	Sequence 4, Appl1
C 33	15.6	2.7	30	9	US-09-866-156-4	Sequence 4, Appl1
C 34	15.6	2.7	30	9	US-09-911-176B-4	Sequence 7, Appl1
C 35	15.6	2.7	30	9	US-10-073-357-7	Sequence 4, Appl1
C 36	15.6	2.7	30	9	US-09-886-156-4	Sequence 4, Appl1
C 37	15.6	2.7	30	9	US-09-886-149-4	Sequence 4, Appl1
C 38	15.6	2.7	30	9	US-09-886-149-4	Sequence 4, Appl1
C 39	15.6	2.7	30	9	US-09-886-156-4	Sequence 4, Appl1
C 40	15.6	2.7	30	9	US-10-180-765-4	Sequence 12, Appl
C 41	15.6	2.7	30	9	US-10-057-467-12	Sequence 87, Appl
C 42	15.6	2.7	30	10	US-10-241-256-4	Sequence 33, Appl
C 43	15.6	2.7	30	10	US-09-828-313-67	Sequence 33, Appl
C 44	15.6	2.7	30	10	US-09-828-447-33	Sequence 32, Appl
C 45	15.6	2.7	30	10	US-09-441-522-32	

ALIGNMENTS

RESULT 1
US-09-898-234-9
Sequence 9, Application US/09898234

; GENERAL INFORMATION:

APPLICANT: Hauptmann, Rudolph

```

; APPLICANT: Maurer-Fogy, Ingrid

```

APPLICANT: Stratowa, Christian

; TITLE OF INVENTION: THE A

; TITLE OF INVENTION: Them

FILE REFERENCE: 98, 385-1

CURRENT FILING DATE: 2001-07-03

PRIOR APPLICATION NUMBER: 09/525,998

PRIOR APPLICATION NUMBER: 08/383,676

PRIOR FILING DATE: 1995-02-01

PRIOR APPLICATION NUMBER: 08/153,287
PRIORITY DATE: 10-2-11

PRIOR FILING DATE: 1993-11-1/
PRIOR APPLICATION NUMBER: 07/821,750

PRIOR FILING DATE: 1992-01-02

PRIOR FILING DATE: 1990-04-20

NUMBER OF SEQ ID NOS: 87

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; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9

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; LENGTH: 30

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; TYPE: DNA
; ORGANISM: Homo sapiens

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ONBOARD. HOME SUPRENS
; FEATURE:

NAME/KEY: CDS

LOCATION: (1) .. (30)
US-09-898-234-9

[illegible]

Best Local Chamber
Matches 30; Conserve

133

133 GTCAGGCGCAC TGG
247

Db 1 GTTAAGGGCACTG

RESULT 2

US-09-792-356-9

Sequence 9, Application US/09792356
Publication No. US20020183485A1
GENERAL INFORMATION:

APPLICANT: Hauptmann, Rudolph
APPLICANT: Hauptmann, Rudolph

APPLICANT: Maurel-Fogy, Ingrid
APPLICANT: Stratowa, Christian

TITLE OF INVENTION: TNF Receptors, TNF Binding Proteins and DNAS Coding for

TITLE OF INVENTION: Them

FILE REFERENCE: 98/385-G

CURRENT APPLICATION NUMBER: US/09/792,356

CURRENT FILING DATE: 2001-08-17

PRIOR APPLICATION NUMBER: 08/477,639

PRIOR FILING DATE: 1995-06-07

PRIOR APPLICATION NUMBER: 08/383,676

PRIOR FILING DATE: 1995-02-01

PRIOR APPLICATION NUMBER: 08/153,287

PRIOR FILING DATE: 1993-11-17

PRIOR APPLICATION NUMBER: 07/821,750

PRIOR FILING DATE: 1992-01-02

PRIOR APPLICATION NUMBER: 07/511,430

PRIOR FILING DATE: 1990-04-20

NUMBER OF SEQ ID NOS: 87

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 9

LENGTH: 30

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: CDS

LOCATION: (1)..(30)

US-09-792-356-9

Query Match

Best Local Similarity 100.0%; Score 30; DB 9; Length 30;

Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 133 GTTAAGGCACTGAGCTCAGCACCACA 162

DB 1 GTTAAGGCACTGAGCTCAGCACCACA 30

RESULT 3

US-09-899-422-9

Sequence 9, Application US/09899422
Patent No. US20020090676A1
GENERAL INFORMATION:

APPLICANT: Hauptmann, Rudolph
APPLICANT: Hauptmann, Rudolph

APPLICANT: Maurel-Fogy, Ingrid
APPLICANT: Stratowa, Christian

TITLE OF INVENTION: TNF Receptors, TNF Binding Proteins and DNAS Coding for

TITLE OF INVENTION: Them

FILE REFERENCE: 98/385-H

CURRENT APPLICATION NUMBER: US/09/899,422

CURRENT FILING DATE: 2001-08-21

PRIOR APPLICATION NUMBER: 09/525,998

PRIOR FILING DATE: 2000-03-15

PRIOR APPLICATION NUMBER: 08/383,676

PRIOR FILING DATE: 1995-02-01

PRIOR APPLICATION NUMBER: 08/153,287

PRIOR FILING DATE: 1993-11-17

PRIOR APPLICATION NUMBER: 07/821,750

PRIOR FILING DATE: 1992-01-02

PRIOR APPLICATION NUMBER: 07/511,430

PRIOR FILING DATE: 1990-04-20

NUMBER OF SEQ ID NOS: 87

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 9

LENGTH: 30

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: CDS

LOCATION: (1)..(30)

US-09-899-422-9

Query Match

Best Local Similarity 100.0%; Score 30; DB 10; Length 30;

Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 133 GTTAAGGCACTGAGCTCAGCACCACA 162

DB 1 GTTAAGGCACTGAGCTCAGCACCACA 30

RESULT 4

US-09-896-186-19/c

Sequence 19, Application US/09756186
Patent No. US20010014333A1

GENERAL INFORMATION:

APPLICANT: Campbell, Robert K.
APPLICANT: Jameson, Bradford A.

APPLICANT: Chappel, Scott C.
TITLE OF INVENTION: HYBRID PROTEINS

NUMBER OF SEQUENCES: 22

CORRESPONDENCE ADDRESS:

ADDRESSEE: BROWDY AND NEWMARK

STREET: 419 Seventh Street N.W., Ste. 300

CITY: Washington

STATE: D.C.

COUNTRY: USA

ZIP: 22207

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/756,186

FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/804,166

FILING DATE:

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Browdy, Roger L.

REGISTRATION NUMBER: 25,618

REFERENCE/DOCKET NUMBER: CAMPBELL-2A

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202) 628-5197

TELEFAX: (202) 737-3528

INFORMATION FOR SEQ ID NO: 19:

SEQUENCE CHARACTERISTICS:

LENGTH: 21 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

US-09-756-186-19

Query Match

Best Local Similarity 100.0%; Score 21; DB 10; Length 21;

Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 142 ACTGAGGACTCAGCACCACA 162

DB 21 ACTGAGGACTCAGCACCACA 1

RESULT 5

```
US-09-828-034-7
; Sequence 7, Application US/09828034
; Patent No. US20020064771A1
; GENERAL INFORMATION:
; APPLICANT: Zhong, Weidong
; APPLICANT: Zhong, Zhi
; APPLICANT: Ferrari, Eric
; TITLE OF INVENTION: HCV REPLICASE COMPLEXES
; FILE REFERENCE: IN01165
; CURRENT FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: US/09/828,034
; PRIOR FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: U.S. 60/195,852
; PRIOR FILING DATE: 2000-04-06
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO: 7
; LENGTH: 30
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic RNA
US-09-828-034-7

Query Match          3.1%; Score 18.8; DB 10; Length 30;
Best Local Similarity 76.7%; Pred. No. 1.6e+04;
Matches 23; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 511 GCCCTCGCTCCGACGCCATCCCAACCC 540
DB 1 GCCCGCCGCCCGCCGCCGCCGCCGCCGCC 30

RESULT 6
US-10-113-877-128/c
; Sequence 128, Application US/10113877
; Patent No. US2002017218A1
; GENERAL INFORMATION:
; APPLICANT: Fang, Xu
; APPLICANT: Wang, Xiao-Yang
; APPLICANT: Turpin, Pierre
; TITLE OF INVENTION: Methods of detecting multiple DNA
; TITLE OF INVENTION: binding protein and DNA interactions in a sample, and
; TITLE OF INVENTION: devices, systems and kits for practicing the same.
; FILE REFERENCE: CLON-071
; CURRENT APPLICATION NUMBER: US/10/113,877
; CURRENT FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: 60/280,658
; PRIOR FILING DATE: 2001-03-30
; PRIOR APPLICATION NUMBER: 60/314,330
; PRIOR FILING DATE: 2001-08-20
; NUMBER OF SEQ ID NOS: 192
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 128
; LENGTH: 23
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: oligonucleotide
US-10-113-877-128

Query Match          3.1%; Score 18.2; DB 9; Length 23;
Best Local Similarity 87.0%; Pred. No. 2.2e+04;
Matches 20; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 457 CCCCCAGAGAGTGACACCC 479
DB 23 CGCGCCAGAGAGTGACACTGC 1

RESULT 7
US-10-043-432-15/c
; Sequence 15, Application US/1004432
; Publication No. US2003005400A1
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; GENERAL INFORMATION:
; APPLICANT: Le, Junning
; APPLICANT: Vileck, Jan
; APPLICANT: Daddona, Peter
; APPLICANT: Chrayeb, John
; APPLICANT: Knight, David M.
; APPLICANT: Siegel, Scott
; TITLE OF INVENTION: Anti-TNF Antibodies and Peptides of
; TITLE OF INVENTION: Human Tumor Necrosis Factor
; FILE REFERENCE: 0975.1005-013
; CURRENT APPLICATION NUMBER: US/10/043,432
; CURRENT FILING DATE: 2002-01-10
; PRIOR APPLICATION NUMBER: 09/927,703
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: U.S. 09/756,398
; PRIOR FILING DATE: 2001-01-08
; PRIOR APPLICATION NUMBER: U.S. 09/133,119
; PRIOR FILING DATE: 1998-08-12
; PRIOR APPLICATION NUMBER: U.S. 08/570,674
; PRIOR FILING DATE: 1995-12-11
; PRIOR APPLICATION NUMBER: U.S. 08/324,799
; PRIOR FILING DATE: 1994-10-18
; PRIOR APPLICATION NUMBER: U.S. 08/192,102
; PRIOR FILING DATE: 1994-02-04
; PRIOR APPLICATION NUMBER: U.S. 08/192,861
; PRIOR FILING DATE: 1994-02-04
; PRIOR APPLICATION NUMBER: U.S. 08/192,093
; PRIOR FILING DATE: 1994-02-04
; PRIOR APPLICATION NUMBER: U.S. 08/010,406
; PRIOR FILING DATE: 1993-01-29
; PRIOR APPLICATION NUMBER: U.S. 08/013,413
; PRIOR FILING DATE: 1993-02-02
; PRIOR APPLICATION NUMBER: U.S. 07/943,852
; PRIOR FILING DATE: 1992-09-11
; PRIOR APPLICATION NUMBER: U.S. 07/853,606
; PRIOR FILING DATE: 1992-03-18
; PRIOR APPLICATION NUMBER: U.S. 07/670,827
; PRIOR FILING DATE: 1991-03-18
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: PCR oligonucleotides
US-10-043-432-15

Query Match          3.1%; Score 18; DB 9; Length 18;
Best Local Similarity 100.0%; Pred. No. 2.2e+04;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 109 TTGTGCTACCCAGATT 126
DB 18 TTGTGCTACCCAGATT 1

RESULT 8
US-09-756-301A-15/c
; Sequence 15, Application US/09756301A
; Patent No. US20010027249A1
; GENERAL INFORMATION:
; APPLICANT: Le, Junning
; APPLICANT: Vileck, Jan
; APPLICANT: Daddona, Peter
; APPLICANT: Chrayeb, John
; APPLICANT: Knight, David M.
; APPLICANT: Siegel, Scott
; TITLE OF INVENTION: Anti-TNF Antibodies and Peptides of
; TITLE OF INVENTION: Human Tumor Necrosis Factor
; FILE REFERENCE: 0975.1005-008
; CURRENT APPLICATION NUMBER: US/09/756,301A
; CURRENT FILING DATE: 2001-01-08
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;; PRIOR APPLICATION NUMBER: U.S. 09/133,119
;; PRIOR FILING DATE: 1998-08-12
;; PRIOR APPLICATION NUMBER: U.S. 08/570,674
;; PRIOR FILING DATE: 1995-12-11
;; PRIOR APPLICATION NUMBER: U.S. 08/324,799
;; PRIOR FILING DATE: 1994-10-18
;; PRIOR APPLICATION NUMBER: U.S. 08/192,102
;; PRIOR FILING DATE: 1994-02-04
;; PRIOR APPLICATION NUMBER: U.S. 08/192,861
;; PRIOR FILING DATE: 1994-02-04
;; PRIOR APPLICATION NUMBER: U.S. 08/192,093
;; PRIOR FILING DATE: 1994-02-04
;; PRIOR APPLICATION NUMBER: U.S. 08/010,406
;; PRIOR FILING DATE: 1993-01-29
;; PRIOR APPLICATION NUMBER: U.S. 08/013,413
;; PRIOR FILING DATE: 1993-02-02
;; PRIOR APPLICATION NUMBER: U.S. 07/943,852
;; PRIOR FILING DATE: 1992-09-11
;; PRIOR APPLICATION NUMBER: U.S. 07/853,606
;; PRIOR FILING DATE: 1992-03-18
;; PRIOR APPLICATION NUMBER: U.S. 07/670,827
;; PRIOR FILING DATE: 1991-03-18
;; NUMBER OF SEQ ID NOS: 19
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 15
;; LENGTH: 18
;; TYPE: DNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: PCR oligonucleotides
US-09-756-301A-15
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Query Match          3.1%; Score 18; DB 10; Length 18;
Best Local Similarity 100.0%; Pred. No. 2.2e+04;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY 109 TTGTGCTACCCAGATT 126
Db 18 TTGTGCTACCCAGATT 1
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RESULT 9
US-09-927-703-15/c
;; Sequence 15, Application US/09927703
;; Patent No. US2002022720A1
;; GENERAL INFORMATION:
;; APPLICANT: Le, Junming
;; APPLICANT: Vilcek, Jan
;; APPLICANT: Daddona, Peter
;; APPLICANT: Ghayeb, John
;; APPLICANT: Knight, David M.
;; APPLICANT: Siegel, Scott
;; TITLE OF INVENTION: Anti-TNF Antibodies and Peptides of
;; FILE REFERENCE: 0975.1005-013
;; CURRENT APPLICATION NUMBER: US/09/927,703
;; CURRENT FILING DATE: 2001-08-10
;; PRIOR APPLICATION NUMBER: U.S. 09/756,398
;; PRIOR FILING DATE: 2001-01-08
;; PRIOR APPLICATION NUMBER: U.S. 09/133,119
;; PRIOR FILING DATE: 1998-08-12
;; PRIOR APPLICATION NUMBER: U.S. 08/570,674
;; PRIOR FILING DATE: 1995-12-11
;; PRIOR APPLICATION NUMBER: U.S. 08/324,799
;; PRIOR FILING DATE: 1994-10-18
;; PRIOR APPLICATION NUMBER: U.S. 08/192,102
;; PRIOR FILING DATE: 1994-02-04
;; PRIOR APPLICATION NUMBER: U.S. 08/192,861
;; PRIOR FILING DATE: 1994-02-04
;; PRIOR APPLICATION NUMBER: U.S. 08/192,093
;; PRIOR FILING DATE: 1994-02-04
;; PRIOR APPLICATION NUMBER: U.S. 08/010,406
;; PRIOR FILING DATE: 1993-01-29
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;; PRIOR APPLICATION NUMBER: U.S. 08/013,413
;; PRIOR FILING DATE: 1993-02-02
;; PRIOR APPLICATION NUMBER: U.S. 07/943,852
;; PRIOR FILING DATE: 1992-09-11
;; PRIOR APPLICATION NUMBER: U.S. 07/853,606
;; PRIOR FILING DATE: 1992-03-18
;; PRIOR APPLICATION NUMBER: U.S. 07/670,827
;; PRIOR FILING DATE: 1991-03-18
;; NUMBER OF SEQ ID NOS: 19
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 15
;; LENGTH: 18
;; TYPE: DNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: PCR oligonucleotides
US-09-927-703-15
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Query Match          3.1%; Score 18; DB 10; Length 18;
Best Local Similarity 100.0%; Pred. No. 2.2e+04;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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OY 109 TTGTGCTACCCAGATT 126
Db 18 TTGTGCTACCCAGATT 1
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RESULT 10
US-09-766-535A-15/c
;; Sequence 15, Application US/09766535A
;; Patent No. US20020106372A1
;; GENERAL INFORMATION:
;; APPLICANT: Le, Junming
;; APPLICANT: Vilcek, Jan
;; APPLICANT: Daddona, Peter
;; APPLICANT: Ghayeb, John
;; APPLICANT: Knight, David M.
;; APPLICANT: Siegel, Scott
;; TITLE OF INVENTION: Anti-TNF Antibodies and Peptides of
;; FILE REFERENCE: 0975.1005-010
;; CURRENT APPLICATION NUMBER: US/09/766,535A
;; CURRENT FILING DATE: 2001-01-18
;; PRIOR APPLICATION NUMBER: U.S. 09/133,119
;; PRIOR FILING DATE: 1998-08-12
;; PRIOR APPLICATION NUMBER: U.S. 08/570,674
;; PRIOR FILING DATE: 1995-12-11
;; PRIOR APPLICATION NUMBER: U.S. 08/324,799
;; PRIOR FILING DATE: 1994-10-18
;; PRIOR APPLICATION NUMBER: U.S. 08/192,102
;; PRIOR FILING DATE: 1994-02-04
;; PRIOR APPLICATION NUMBER: U.S. 08/192,861
;; PRIOR FILING DATE: 1994-02-04
;; PRIOR APPLICATION NUMBER: U.S. 08/192,093
;; PRIOR FILING DATE: 1994-02-04
;; PRIOR APPLICATION NUMBER: U.S. 08/010,406
;; PRIOR FILING DATE: 1993-01-29
;; PRIOR APPLICATION NUMBER: U.S. 08/013,413
;; PRIOR FILING DATE: 1993-02-02
;; PRIOR APPLICATION NUMBER: U.S. 07/943,852
;; PRIOR FILING DATE: 1992-09-11
;; PRIOR APPLICATION NUMBER: U.S. 07/853,606
;; PRIOR FILING DATE: 1992-03-18
;; PRIOR APPLICATION NUMBER: U.S. 07/670,827
;; PRIOR FILING DATE: 1991-03-18
;; NUMBER OF SEQ ID NOS: 19
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 15
;; LENGTH: 18
;; TYPE: DNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: PCR oligonucleotides
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US-09-766-535A-15

Query Match 3.1%; Score 18; DB 10; Length 18;
Best Local Similarity 100.0%; Pred. No. 2.2e+04;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 109 TTGTGCTACCCAGATT 126
DB 18 TTGTGCTACCCAGATT 1

RESULT 11

US-09-756-451-15/c

Sequence 15, Application US/09756161A

Patent No. US2002013207A1

GENERAL INFORMATION:

APPLICANT: Le, Junming

APPLICANT: Vilcek, Jan

APPLICANT: Daddona, Peter

APPLICANT: Ghayeb, John

APPLICANT: Knight, David M.

APPLICANT: Siegel, Scott

TITLE OF INVENTION: Anti-TNF Antibodies and Peptides of

FILE REFERENCE: 0975.1005-007

CURRENT APPLICATION NUMBER: US/09/756.161A

CURRENT FILING DATE: 2001-01-08

PRIOR APPLICATION NUMBER: U.S. 09/133.119

PRIOR FILING DATE: 1998-08-12

PRIOR APPLICATION NUMBER: U.S. 08/570.674

PRIOR FILING DATE: 1995-12-11

PRIOR APPLICATION NUMBER: U.S. 08/324.799

PRIOR FILING DATE: 1994-10-18

PRIOR APPLICATION NUMBER: U.S. 08/192.102

PRIOR FILING DATE: 1994-02-04

PRIOR APPLICATION NUMBER: U.S. 08/192.861

PRIOR FILING DATE: 1994-02-04

PRIOR APPLICATION NUMBER: U.S. 08/192.093

PRIOR FILING DATE: 1994-02-04

PRIOR APPLICATION NUMBER: U.S. 08/010.406

PRIOR FILING DATE: 1993-01-29

PRIOR APPLICATION NUMBER: U.S. 08/013.413

PRIOR FILING DATE: 1993-02-02

PRIOR APPLICATION NUMBER: U.S. 07/943.852

PRIOR FILING DATE: 1992-09-11

PRIOR APPLICATION NUMBER: U.S. 07/853.606

PRIOR FILING DATE: 1992-03-18

PRIOR APPLICATION NUMBER: U.S. 07/670.827

PRIOR FILING DATE: 1991-03-18

NUMBER OF SEQ ID NOS: 19

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 15

LENGTH: 18

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: PCR oligonucleotides

US-09-756-161A-15

Query Match 3.1%; Score 18; DB 10; Length 18;
Best Local Similarity 100.0%; Pred. No. 2.2e+04;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 109 TTGTGCTACCCAGATT 126
DB 18 TTGTGCTACCCAGATT 1

RESULT 12

US-10-010-229-15/c

Sequence 15, Application US/10010229

Patent No. US20020114805A1

GENERAL INFORMATION:

APPLICANT: Le, Junming

APPLICANT: Vilcek, Jan

APPLICANT: Daddona, Peter

APPLICANT: Ghayeb, John

APPLICANT: Knight, David M.

APPLICANT: Siegel, Scott

TITLE OF INVENTION: Anti-TNF Antibodies and Peptides of

FILE REFERENCE: 0975.1005-013

CURRENT APPLICATION NUMBER: US/10/010.229

CURRENT FILING DATE: 2001-12-07

PRIOR APPLICATION NUMBER: US/09/927.703

PRIOR FILING DATE: 2001-08-10

NUMBER OF SEQ ID NOS: 19

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 15

LENGTH: 18

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: PCR oligonucleotides

US-10-010-229-15

Query Match 3.1%; Score 18; DB 12; Length 18;
Best Local Similarity 100.0%; Pred. No. 2.2e+04;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 109 TTGTGCTACCCAGATT 126
DB 18 TTGTGCTACCCAGATT 1

RESULT 13

US-10-043-450-15/c

Sequence 15, Application US/10043450

Patent No. US20020141996A1

GENERAL INFORMATION:

APPLICANT: Le, Junming

APPLICANT: Vilcek, Jan

APPLICANT: Daddona, Peter

APPLICANT: Ghayeb, John

APPLICANT: Knight, David M.

APPLICANT: Siegel, Scott

TITLE OF INVENTION: Anti-TNF Antibodies and Peptides of

FILE REFERENCE: 0975.1005-013

CURRENT APPLICATION NUMBER: US/10/043.450

CURRENT FILING DATE: 2002-01-10

PRIOR APPLICATION NUMBER: 09/927.703

PRIOR FILING DATE: 2001-08-10

PRIOR APPLICATION NUMBER: U.S. 09/756.398

PRIOR FILING DATE: 2001-01-08

PRIOR APPLICATION NUMBER: U.S. 09/133.119

PRIOR FILING DATE: 1998-08-12

PRIOR APPLICATION NUMBER: U.S. 08/570.674

PRIOR FILING DATE: 1995-12-11

PRIOR APPLICATION NUMBER: U.S. 08/324.799

PRIOR FILING DATE: 1994-10-18

PRIOR APPLICATION NUMBER: U.S. 08/192.102

PRIOR FILING DATE: 1994-02-04

PRIOR APPLICATION NUMBER: U.S. 08/192.861

PRIOR FILING DATE: 1994-02-04

PRIOR APPLICATION NUMBER: U.S. 08/192.093

PRIOR FILING DATE: 1994-02-04

PRIOR APPLICATION NUMBER: U.S. 08/010.406

PRIOR FILING DATE: 1993-01-29

PRIOR APPLICATION NUMBER: U.S. 08/013.413

PRIOR FILING DATE: 1993-02-02

PRIOR APPLICATION NUMBER: U.S. 07/943.852

PRIOR FILING DATE: 1992-09-11

PRIOR APPLICATION NUMBER: U.S. 07/853.606

PRIOR FILING DATE: 1992-03-18

PRIOR APPLICATION NUMBER: U.S. 07/670.827

PRIOR FILING DATE: 1991-03-18
NUMBER OF SEQ ID NOS: 19
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 15
LENGTH: 18
TYPE: DNA
ORGANISM: Artificial Sequence
OTHER INFORMATION: PCR oligonucleotides
US-10-043-450-15

Query Match 3.1%; Score 18; DB 12; length 18;
Best Local Similarity 100.0%; Pred. No. 2.2e+04;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
DB 18 TTGTGCTACCCAGATT 1

RESULT 14
US-10-044-534-15/c
Sequence 15, Application US/10044534
Patent No. US20020146419A1
GENERAL INFORMATION:
APPLICANT: Le, Junming
APPLICANT: Vilcek, Jan
APPLICANT: Daddona, Peter
APPLICANT: Chrayeb, John
APPLICANT: Knight, David M.
APPLICANT: Siegel, Scott
TITLE OF INVENTION: Anti-TNF Antibodies and Peptides of
FILE REFERENCE: 09/5.1005-013
CURRENT APPLICATION NUMBER: US/10/044,534
PRIOR FILING DATE: 2002-01-10
PRIOR APPLICATION NUMBER: 09/927,703
PRIOR FILING DATE: 2001-08-10
PRIOR APPLICATION NUMBER: U.S. 09/756,388
PRIOR FILING DATE: 2001-01-08
PRIOR APPLICATION NUMBER: U.S. 09/133,119
PRIOR FILING DATE: 1998-08-12
PRIOR APPLICATION NUMBER: U.S. 08/570,674
PRIOR FILING DATE: 1995-12-11
PRIOR APPLICATION NUMBER: U.S. 08/324,799
PRIOR FILING DATE: 1994-10-18
PRIOR APPLICATION NUMBER: U.S. 08/192,102
PRIOR FILING DATE: 1994-02-04
PRIOR APPLICATION NUMBER: U.S. 08/192,861
PRIOR FILING DATE: 1994-02-04
PRIOR APPLICATION NUMBER: U.S. 08/192,093
PRIOR FILING DATE: 1994-02-04
PRIOR APPLICATION NUMBER: U.S. 08/7010,406
PRIOR FILING DATE: 1993-01-29
PRIOR APPLICATION NUMBER: U.S. 08/013,413
PRIOR FILING DATE: 1993-02-02
PRIOR APPLICATION NUMBER: U.S. 07/943,852
PRIOR FILING DATE: 1992-09-11
PRIOR APPLICATION NUMBER: U.S. 07/853,606
PRIOR FILING DATE: 1992-03-18
PRIOR APPLICATION NUMBER: U.S. 07/670,827
PRIOR FILING DATE: 1991-03-18
NUMBER OF SEQ ID NOS: 19
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 15
LENGTH: 18
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: PCR oligonucleotides
US-10-044-534-15
Query Match 3.1%; Score 18; DB 12; length 18;

Best Local Similarity 100.0%; Pred. No. 2.2e+04;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
DB 18 TTGTGCTACCCAGATT 1

RESULT 15
US-09-757-041-11
Sequence 11, Application US/09757041
Patent No. US20020009726A1
GENERAL INFORMATION:
APPLICANT: Reed, John C.
APPLICANT: Sato, Takaki
TITLE OF INVENTION: CD40 Associated Proteins
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Campbell and Flores
STREET: 4300 La Jolla Village Drive, Suite 700
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92122
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/757,041
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/349,357
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 1203
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 24 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-757-041-11
Query Match 3.1%; Score 18; DB 10; length 24;
Best Local Similarity 100.0%; Pred. No. 2.6e+04;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
DB 7 CGCTACCAAGGTGGAAG 24
Search completed: May 21, 2003, 07:33:50
Job time: 129 secs

Plate: 0010 Row: K Column: 24
 Seq primer: CATTGTAACGACGCGCAGT
 Class: plasmid ends
 High quality sequence stop: 28.
 Location/Qualifiers
 1..28

/organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UUGC2M0010K24"
 /clone.lib="Mouse 10kb plasmid UUGC1M library"
 /sex="Male"
 /lab_host="E. coli strain XL10-gold, p1-resistant, F-"
 /note="Vector: pMD42ny; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
 (http://www.jax.org/resources/documents/dnats/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (g147321419b/AF12907.1), a copy-number inducible derivative of plasmid RL. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT
 ORIGIN
 7 a 12 c 3 g 6 t

Query Match
 Best Local Similarity 75.0%; Score 16.8; DB 17; Length 28;
 Matches 21; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 491 CTGACCCCATCTGCGACAGCCCTCGC 518
 DB 1 CTGACCTCATCTGCGAAGCCCACTC 28

RESULT 2
 LOCUS TM42E02P/c 30 bp DNA linear GSS 13-DEC-2000
 DEFINITION T. brucei sheared genomic DNA clone 42e02, forward sequence.
 ACCESSION AL455550
 VERSION AL455550.1 GI:11856678
 KEYWORDS GSS
 SOURCE Trypanosoma brucei.
 ORGANISM Trypanosoma brucei
 Eukaryota; Euklenozoa; Kinetoplastida; Trypanosomatidae; Trypanosoma.
 1 (bases 1 to 30)
 Hall, N., Bowman, S., Lennard, N.J., Doggett, J., Atkin, R., Chillingworth, C., Ormond, D., Harris, B., El-Sayed, N., Hou, L., Melville, S.E., Rajandream, M.A. and Barrell, B.G.
 Direct Submission
 Submitted (10-DEC-2000) Trypanosoma brucei genome sequencing project, Sanger Centre, The Wellcome Trust genome Campus, Hinxton, Cambridge CB10 1SA, E-mail: barrell@sanger.ac.uk and nh@sanger.ac.uk
 Constructed at the Institute for Genomic Research (TIGR), Rockville, MD. Genomic DNA isolated from a cloned population of Trypanosoma brucei (TRE0927/4 GUTat 10.1) was mechanically sheared to give a tight size distribution (4 kb). The v + 1 method used for the library construction is described in detail in Smith, H. and Venter, J.C. (Making small insert libraries for whole genome shotgun sequencing projects. In Genome Sequencing: A Practical Approach, eds. M. Vaudin and B.

Barrell, Oxford University Press, 1999).
 Email: nh@sanger.ac.uk
 Details of T. brucei sequencing at the Sanger Centre are available at <http://www.sanger.ac.uk/projects/T-brucei/>.
 Location/Qualifiers
 1..30

/organism="Trypanosoma brucei"
 /strain="TRE0927"
 /db_xref="taxon:5691"
 /clone="42e02"
 BASE COUNT
 ORIGIN
 7 a 11 c 6 g 6 t

Query Match
 Best Local Similarity 75.0%; Score 16.8; DB 17; Length 30;
 Matches 21; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 59 ACGAGTGTCCTCTGTAGTACTGTA 86
 DB 26 AAGAGGTGTGCTGCGAGAGTCA 2

RESULT 3
 LOCUS BM399811/c 26 bp mRNA linear EST 17-JAN-2002
 DEFINITION 5009-0-62-A04.t.1 Chillicoat/Turkewitz cDNA (large fraction)
 Tetrahymena thermophila cDNA, mRNA sequence.
 ACCESSION BM399811
 VERSION BM399811.1 GI:18199864
 KEYWORDS EST.
 SOURCE Tetrahymena thermophila.
 ORGANISM Tetrahymena thermophila.
 Eukaryota; Alveolata; Ciliophora; Oligohymenophorea; Hymenostomatida; Tetrahymenina; Tetrahymena.
 1 (bases 1 to 26)
 Turkewitz, A.P., Karier, R.M., Jahn, C., Orlas, E., Kirk, K.E., Frankel, J. and Klobutcher, L.
 EST from Tetrahymena thermophila, strain CV428.1, growing cells
 Unpublished (2002)
 Contact: Turkewitz AP
 Molecular Genetics and Cell Biology
 University of Chicago
 920 E. 58th Street, Chicago, IL 60637, USA
 Tel: 773 702 4374
 Fax: 773 702 3172
 Email: apturkew@midway.uchicago.edu
 Seq primer: T3.
 Location/Qualifiers
 1..26

/organism="Tetrahymena thermophila"
 /strain="CV428.1"
 /db_xref="taxon:5911"
 /clone.lib="Chillicoat/Turkewitz cDNA (large fraction)"
 /note="Vector: Bluescript2 SK+; Details on library preparation can be found in Chillicoat and Turkewitz (2001) Proc. Natl. Acad. Sci USA, 98: 8709-8713."

BASE COUNT
 ORIGIN
 7 a 7 c 8 g 4 t

Query Match
 Best Local Similarity 82.6%; Score 16.6; DB 13; Length 26;
 Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 237 CCAACGCTGGAAGTCCAGCTCT 259
 DB 26 CCACCGGTGAGCTCCAGCTTT 4

RESULT 4
 LOCUS A2788326/c 19 bp DNA linear GSS 16-FEB-2001
 DEFINITION 2M0035P16F Mouse 10kb plasmid UUGC1M library Mus musculus genomic clone UUGC2M0035P16 F, DNA sequence.

ACCESSION A2788326
VERSION A2788326.1 GI:12928014
KEYWORDS GSS
SOURCE house mouse.
ORGANISM Mus musculus
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 19)
AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamli,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tinney,A., von Niederhausern,A. and Wright,D., Weiss,R.
TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
JOURNAL Unpublished (2000)
COMMENT Contact: Robert B. Weiss
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert length: 10000 Std Error: 0.00
Plate: 0035 row: P column: 16
Seq primer: CGTGTAAAGACGCGCCAGT
Class: plasmid ends
High quality sequence stop: 19.
Location/Qualifiers
1..19
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="U06C2M0035P16"
/clone_lib="Mouse 10kb plasmid U06C1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"
/note="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The sheared DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PMD42 (g114732114|9b|AF129072.1), a copy number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 7 a 6 c 3 g 3 t
ORIGIN
Query Match 2.8%; Score 16.4; DB 17; Length 19;
Best Local Similarity 94.4%; Pred. No. 8.3e+06;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 261 CTCACATGTTGTGGGAA 278
DB 19 CTCACATGTTGTGGGAA 2

RESULT 5 A2464926 30 bp DNA linear GSS 04-OCT-2000
LOCUS 1M0274J04R Mouse 10kb plasmid U06C1M library Mus musculus genomic
DEFINITION clone U06C1M0274J04 R, DNA sequence.

ACCESSION A2464926
VERSION A2464926.1 GI:10623051
KEYWORDS GSS
SOURCE house mouse.
ORGANISM Mus musculus
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 30)
AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamli,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tinney,A., von Niederhausern,A. and Wright,D., Weiss,R.
TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
JOURNAL Unpublished (2000)
COMMENT Contact: Robert B. Weiss
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert length: 10000 Std Error: 0.00
Plate: 0274 row: J column: 04
Seq primer: CACACAGGAACGCTATGACC
Class: plasmid ends
High quality sequence stop: 30.
Location/Qualifiers
1..30
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="U06C1M0274J04"
/clone_lib="Mouse 10kb plasmid U06C1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, Tl-resistant, F-"
/note="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The sheared DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PMD42 (g114732114|9b|AF129072.1), a copy number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 1 a 29 c 0 g 0 t
ORIGIN
Query Match 2.8%; Score 16.2; DB 17; Length 30;
Best Local Similarity 72.4%; Pred. No. 9.7e+06;
Matches 21; Conservative 0; Mismatches 8; Indels 0; Gaps 0;

QY 513 CCTGCGCTCGACCCACCCACCCACCC 541
DB 1 CCCCCCCCCCCCCCCCCCCCCCCCC 29

RESULT 6 A2875577 30 bp DNA linear GSS 21-FEB-2001
LOCUS 2M0190C06F Mouse 10kb plasmid U06C1M library Mus musculus genomic
DEFINITION clone U06C2M0190C06 F, DNA sequence.

ACCESSION A2875577
 VERSION A2875577.1 GI:13085557
 KEYWORDS GSS.
 SOURCE house mouse.
 ORGANISM Mus musculus.
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 REFERENCE 1 (bases 1 to 30)
 AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamll,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D., Weiss,R.
 TITLE Mouse whole genome scaffolding with paired end reads from 10kb
 JOURNAL Unpublished (2000)
 COMMENT Contact: Robert B. Weiss.
 University of Utah Genome Center
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 200 E., SLC, UT 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0198 row: G column: 06
 Seq primer: CGTGTAAACGACGCGCCAGT
 Class: Plasmid ends
 High quality sequence stop: 30.
 Location/Qualifiers
 1..30
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone="UUCG2M0190606"
 /clone_1lb="Mouse 10kb plasmid UUCG1M library"
 /sex="Male"
 /lab_host="E. Coli strain XL10-gold, T1-resistant, F-"
 /note="Vector: PMD42H; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PMD42 (g114732114|9b|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT 0 a 28 c 1 g 1 t
 ORIGIN
 Query Match 2.8%; Score 16.2; DB 17; Length 30;
 Best Local Similarity 72.4%; Pred. No. 9.7e+06;
 Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
 Oy 512 CCCTCGCCTCGACCCCATCCCAACCC 540
 Db 1 CCCTCCCCCCCCCCCCCCCCCCCCCCC 29
 RESULT 7
 AA936737 25 bp mRNA linear EST 29-APR-1998
 LOCUS o159f10.s1 NCI-CGAP HN4 Homo sapiens cDNA clone IMAGE:146987 3'
 DEFINITION similar to TR:Q18444 Q18444 COSMID C34D4.1; mRNA sequence.

ACCESSION AA936737
 VERSION AA936737.1 GI:3094771
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens.
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
 REFERENCE 1 (bases 1 to 25)
 AUTHORS NCI/NIH-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
 TITLE National Cancer Institute / National Institute of Dental Research, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
 JOURNAL Unpublished (1997)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgapbs@mail.nih.gov
 Tissue Procurement: John Ensey, M.D.
 CDNA Library Preparation: Stratagene, Inc.
 CDNA Library Arrayed by: Greg Lennon, Ph.D.
 DNA Sequencing by: Washington University Genome Sequencing Center
 Clone Distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/BLMT at: www.bio.11nl.gov/dbp/image/image.html
 Trace considered overall poor quality
 Seq primer: -40m13 fwd. RT from Amer sham
 High quality sequence stop: 1.
 Location/Qualifiers
 1..25
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="IMAGE:146987"
 /clone_1lb="NCI-CGAP HN4"
 /tissue_type="squamous cell carcinoma"
 /lab_host="SOLR (kanamycin resistant)"
 /note="Organ: pharynx; Vector: Bluescript SK-; Site: 1; EcoRI; Site: 2; XhoI; Cloned unidirectionally. Primer: 5' GATTGCGCAGAG 3' 3' adaptor sequence: 5' (GA)10ACTAGCTCGAGTCTTTTCTTTTCTT 3'."

BASE COUNT 1 a 1 c 18 g 5 t
 ORIGIN
 Query Match -2.7%; Score 16; DB 9; Length 25;
 Best Local Similarity 79.2%; Pred. No. 1.1e+07;
 Matches 19; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
 Oy 521 CCAGCCCATCCCAACCCCTCC 544
 Db 25 CCACCCCAACCCCAACCCCTCC 2
 RESULT 8
 AZ348233 25 bp DNA linear GSS 29-SEP-2000
 LOCUS 1M0084604R Mouse 10kb plasmid UUCG1M library Mus musculus genomic
 DEFINITION Clone UUCG1M0084604 R. DNA sequence.
 ACCESSION AZ348233
 VERSION AZ348233.1 GI:10427470
 KEYWORDS GSS.
 SOURCE house mouse.
 ORGANISM Mus musculus.
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 REFERENCE 1 (bases 1 to 25)
 AUTHORS Dunn,D., Aoyagi,A., Barber,M., Beacorn,T., Duval,B., Hamll,C., Islam,H., Longacre,S., Mahmoud,M., Meenen,E., Pedersen,T., Reilly,M., Rose,M., Rose,R., Stokes,R., Tingey,A., von Niederhausern,A. and Wright,D., Weiss,R.
 TITLE Mouse whole genome scaffolding with paired end reads from 10kb
 JOURNAL Unpublished (2000)
 COMMENT Contact: Robert B. Weiss.
 University of Utah Genome Center

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0084 row: G column: 04
Seq primer: CACACAGGAACAGCTATGACC
Class: plasmid ends
High quality sequence stop: 25.
Location/Qualifiers

FEATURES

source

1. 25
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="U06C1M0084G04"
/clone_11b="Mouse 10kb plasmid U06C1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: PMD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptor DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of PMD42 (g114732114|gbl|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptor mouse DNA was annealed to
adaptor vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

BASE COUNT

2 a 23 c 0 g 0 t

BASE COUNT

6 a 8 c 9 g 3 t

Query Match 2.7%; Score 16; DB 17; Length 26;
Best Local Similarity 79.2%; Pred. No. 1.1e+07;
Matches 19; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

OY 518 COTCCGACCCATGCCCAACCC 541
Db 2 CCCCCCCCCCACCACCCACCC 25

RESULT 9

A2823359

LOCUS

DEFINITION 26 bp DNA linear GSS 20-FEB-2001
clone U06C2M0097C19 F, DNA sequence.

ACCESSION

A2823359

VERSION

A2823359.1

KEYWORDS

GSS.

SOURCE

house mouse.

ORGANISM

Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sclerognathi; Muridae; Murinae; Mus.

REFERENCE

1 (bases 1 to 26)

AUTHORS

Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly,
M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.
and Wright, D., Weis, R.

TITLE

Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts

JOURNAL

Unpublished (2000)

COMMENT

Contact: Robert B. Weis
University of Utah Genome Center

FEATURES

source

1. 26
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="U06C2M0097C19"
/clone_11b="Mouse 10kb plasmid U06C1M library"
/sex="Male"
/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: PMD42nv; Purified genomic DNA from M.
musculus C57BL/6J (male) was obtained from the Jackson
Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA
was hydrodynamically sheared by repeated passage through a
0.005 inch orifice at constant velocity. The sheared DNA
was blunt end-repaired with T4 DNA polymerase and T4
polynucleotide kinase. Adaptor oligonucleotides were
ligated to the blunt ends in high molar excess. The
adaptor DNA was purified and size-selected for a 9.5 to
10.5 kb range using preparative agarose gel
electrophoresis. Vector DNA was prepared from a derivative
of PMD42 (g114732114|gbl|AF129072.1), a copy-number
inducible derivative of plasmid R1. The vector was ligated
with adaptors complementary to the insert adaptors and
purified. The sheared, adaptor mouse DNA was annealed to
adaptor vector DNA, and transformed into
chemically-competent E. coli XL10-Gold (Stratagene) cells
and selected for ampicillin resistance."

Query Match 2.7%; Score 16; DB 17; Length 26;
Best Local Similarity 79.2%; Pred. No. 1.1e+07;
Matches 19; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

OY 536 ACCCCCTCAGAGTGAGGACCA 559
Db 3 ACCCATTCAGAGTGAGGACCA 26

RESULT 10

A2343341

LOCUS

DEFINITION 27 bp DNA linear GSS 29-SEP-2000
clone U06C1M0076804 R, DNA sequence.

ACCESSION

A2343341

VERSION

A2343341.1

KEYWORDS

GSS.

SOURCE

house mouse.

ORGANISM

Mus musculus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sclerognathi; Muridae; Murinae; Mus.

REFERENCE

1 (bases 1 to 27)

AUTHORS

Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C.,
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly,
M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.
and Wright, D., Weis, R.

TITLE

Mouse whole genome scaffolding with paired end reads from 10kb
plasmid inserts

JOURNAL

Unpublished (2000)

COMMENT

Contact: Robert B. Weis
University of Utah Genome Center

COMMENT
Contact: Robert B. Weiss
University of Utah Genome Center
University of Utah

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00
Plate: 0280 row: B column: 08
Seq primer: CGTGTAAACGACGCGCAGT
Class: plasmid ends
High quality sequence stop: 26.

FEATURES

Location/Qualifiers

source

1. 26
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="U09C2M0280B08"
/clone_lib="Mouse 10kb plasmid library"
/sex="Female"
/lab_host="E. coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (female) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/nares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PMD42 (g114732114[gb|AF129072.1]), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT

9 a 13 c 0 g 4 t

ORIGIN

Query Match 2.7%; Score 15.8; DB 17; Length 26;
Best Local Similarity 89.5%; Pred. No. 1.2e+07;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 414 CAGCTCCACCTATACCCC 432

DB 1 CAACTCCACCTATACCCC 19

RESULT 13

AZ355810/c

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT
University of Utah

27 bp DNA linear GSS 02-OCT-2000
1M0095G10R Mouse 10kb plasmid U09C1M library Mus musculus genomic
clone U09C1M0095G10 R, DNA sequence.

AZ355810

GI:10468500

GSS.

house mouse.

Mus musculus

Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

1 (bases 1 to 27)

Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C.,

Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly,

M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.

and Wright, D., Weiss, R.

Mouse whole genome scaffolding with paired end reads from 10kb

plasmid inserts

Unpublished (2000)

Contact: Robert B. Weiss

University of Utah Genome Center

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLIC, UT
84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu

Insert Length: 10000 Std Error: 0.00
Plate: 0095 row: G column: 10
Seq primer: CACACGAAACGACGACGAC
Class: plasmid ends
High quality sequence stop: 27.

FEATURES

source

1. 27
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="U09C1M0095G10"
/clone_lib="Mouse 10kb plasmid library"
/sex="Male"
/lab_host="E. coli strain XL10-Gold, T1-resistant, F-"
/note="Vector: PMD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/nares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PMD42 (g114732114[gb|AF129072.1]), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT

0 a 0 c 24 g 3 t

ORIGIN

Query Match 2.7%; Score 15.8; DB 17; Length 27;
Best Local Similarity 74.1%; Pred. No. 1.2e+07;
Matches 20; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

OY 513 CCTCGCTCCGACCCCATCCCAACC 539

DB 27 CCACCCCGCCCGACCCCGCCCAACC 1

RESULT 14

AZ842796/c

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT
University of Utah

27 bp DNA linear GSS 20-FEB-2001
2M0141120F Mouse 10kb plasmid U09C1M library Mus musculus genomic
clone U09C1M0141120 F, DNA sequence.

AZ842796

GI:13012704

GSS.

house mouse.

Mus musculus

Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

1 (bases 1 to 27)

Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamill, C.,

Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly,

M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A.

and Wright, D., Weiss, R.

Mouse whole genome scaffolding with paired end reads from 10kb

plasmid inserts

Unpublished (2000)

Contact: Robert B. Weiss

University of Utah Genome Center

Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLG, UT
84113, USA
Tel.: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0141 row: I column: 20
Seq primer: CGTTGTAACGACGCGCCACT
Class: plasmid ends
High quality sequence stop: 27.

FEATURES

Source:

1. 27
/organism="Mus musculus"
/strain="C57BL/6J"
/db.xref="taxon:10090"
/clone="U06C2M0141120"
/clone_id="Mouse 10kb plasmid U06C1M library"
/sex="Male"
/lab host="E. Coli strain XL10-Gold, Tl-resistant, F-"
note="Vector: PMD42ny; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnares/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adaptor DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PMD42 (g114732114[gb]AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptor mouse DNA was annealed to adaptor vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

Query Match	2.7%	Score 15.8	DB 17	Length 27
Best Local Similarity	74.1%	Pred. No. 1.2e+07		
Matches 20: Conservative	0	Mismatches 7	Indels 0	Gaps 0
QY	396	CAGTTCACCTTACCTCCAGCTCCAC	422	
Db	27	CACGACGACGATCACGACGACGAC	1	

	RESULT	15
A1085431	LOCUS	
A1085431	DEFINITION	28 bp mRNA linear EST 28-AUG-1998 Ow62h11.s1 Soares-fetal_liver_spleen_JMFLS.S1 Homo sapiens CDNA

clone IMAGE:1653381 3' similar to TR:Q15409 Q15409 RTVE-1 PROTEIN
// mRNA sequence.

ACCESSION AI085431
VERSION AI085431.1 GI:3423854
KEYWORDS EST.

SOURCE
ORGANISM

human.
Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo

1 (bases 1 to 28)
REFERENCE
AUTHORS
NCI-CCGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
National Cancer Institute, Cancer Therapy Evaluation Program, Bethesda, (2002)

TITLE
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP)
 Tumor Gene Index.
 Published (1997)
 TISSUE

COOKING	supervised (1997)
COMMENT	Contact: Robert Strausberg, Ph.D. Email: rsbrau@u.wisc.edu and rsbrau@u.wisc.edu

Trace considered overall poor quality

```

Insert Length: 1338      Std Error: 0.00
Seq primer: -40m13 fwd.  ET from AmerSham
High quality sequence stop: 1.
      Location/Qualifiers
          1. 28

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FEATURES

Source

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/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1653381"
/clone_id="Soares_fetal_liver_spleen_INFLS_S1"
/sex="male"
/dev_stage="20 week-post conception fetus"
/lab_host="DH10B (ampicillin resistant)"
/notes="Organ: Liver and Spleen; Vector: pT73D (Pharmacia)
with a modified polylinker; Site_1: Pac I; Site_2: Eco RI.
This is a subcloned version of the original Soares fetal
liver spleen INFLS library. 1st strand cDNA was primed
with a Pac I - oligo(dT) primer [5',
AMCGGAGAGATTTATTTATGAGATCTTTTTTTTTTTTTTTT 3'],
double-stranded cDNA was ligated to Eco RI adaptors
(Pharmacia), digested with Pac I and cloned into the Pac I
and Eco RI sites of the modified pT73 vector. Library
went through one round of normalization. Library
constructed by Bento Soares and M. Fatima Bonaldo."

```

	Query Match	2.7%	Score 15.8;	DB 9	Length 28;
	Best Local Similarity	74.1%;	Pred. No.1.2e+07;		
Matches	20; Conservative	0;	Mismatches	7;	Indels
				0;	Gaps
QY	76 AGTACTCTAGAAAGAAGCCTGGATGTC	102			
Dd	2 AGAACATTAGCGCAAGGTGGAGTGCC	28			

Search completed: May 21, 2003, 07:30:04
Job time : 1444 secs